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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT NO. [redacted]

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COUNTRY USSR

DATE DISTR. 8 JAN 1952

SUBJECT Geological Survey of USSR

25X1A

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DATE ACQUIRED BY SOURCE 25X1C [redacted]

SUPPLEMENT TO REPORT NO. [redacted] 25X1A

DATE OF INFORMATION 25X1X

[redacted]

25X1A /Available at the CIA Map Library are the following maps. These maps were referred to in [redacted]

Dwg.	Title	Scale
6	European Russia	Approx. 1:10,000,000
7	European Russia - Pre Cambrian Structure	" "
8	European Russia - Caledonian Structure of Russian Platform	" "
9	European Russia - Hercinian Structure	" "
10	European Russia - Alpine Structure of Russian Platform	" "
11	European Russia - Upper Devonian Isopachs	" "
12	European Russia - Lower Carboniferous Coal Series	" "
13	European Russia - Upper Carboniferous	" "
14	European Russia - Lower Permian Isopachs	" "
15	European Russia - Lower Permian (Kungur) Isopachs	" "
16	European Russia - Upper Permian (Kazan) Isopachs	" "
17	European Russia - Upper Jurassic Isopachs	" "

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Dwg.	Title	Scale
18	Ukrainian Depression	Approx. 1:3,200,000
19	Ukrainian Depression - Pre Cambrian Structure	" "
20	Ukrainian Depression - Caledonian Structure	" "
21	Ukrainian Depression - Hercinian Structure	" "
22	Ukrainian Depression - Present Structural Situation	" "
23	Ukrainian Depression - Upper Devonian Isopachs	" "
24	Ukrainian Depression - Upper Carboniferous Isopachs	" "
25	Ukrainian Depression - Lower Permian (Artinsk) Isopachs	" "
26	Ukrainian Depression - Lower Permian (Kungur) Isopachs	" "
27	Ukrainian Depression - Upper Permian (Spirifer-Kazan) Isopachs	" "
28	Ukrainian Depression - Upper Jurassic Isopachs	" "
29	Ukrainian Depression - Section from Dnepropotrovsk to Voronezh	Approx. 1:1,200,000
30	Ukrainian Depression - Section from Zvetkovo to Orel	" "
31	Donetz Basin - C-C'	Vertical 1:520,000
32	Ukrainian Depression - Oil fields of the Ukrainian Depression	Approx. 1:3,200,000
33	Romny	Approx. 1:32,000
34.	North Flank of Romny Salt Dome	none
35.	Romny Salt Dome - Section of North Wing - Central Profile (3 sheets)	- - -
36.	Romny Salt Dome - N8R on the West Side of the Dome Near Contact Zone (2 sheets)	- - -
37	Romny Salt Dome,- East Part Near Salt Contact (2 sheets)	- - -
38	Tsachki Salt Dome	- - -

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Dwg.	Title	Scale
39	General Type of Ukrainian Salt Domes	- - -
40	Different Types of Ukrainian Salt Domes - Open Dome	- - -
41	Different Types of Ukrainian Salt Domes - Closed Dome	- - -
42	Emba Salt Dome Region	Approx. 1:3,300,000
43	Emba Salt Dome Region - Pre Cambrian Structure	" "
44	Emba Salt Dome Region - Caledonian Structure	" "
45	Emba Salt Dome Region - Hercinian Structure	" "
46	Emba Salt Dome Region - Present Structural Situation	Approx. 1:3,200,000
47	Emba Salt Dome Region - Lower Permian (Artinsk) Isopachs	" "
48	Emba Salt Dome Region - Lower Permian (Kungur) Isopachs	" "
49	Emba Salt Dome Region - Upper Permian (Spirifer-Kazan) Isopachs	" "
50	Emba Salt Dome Region - Middle Jurassic Thickness	" "
51	Emba Salt Dome Region - Upper Jurassic Isopachs	" "
52	Emba Salt Dome Region - Lower Cretaceous (Neokomian) Facies	" "
53	Emba Salt Dome Region - Emba Oil Fields	" "
54	General Gravity - Emba Salt Dome Region	Approx. 1:1,100,000
55	Cross Section A-B - Emba Salt Dome Region	Approx. 1:2,600,000
56	Cross Section C-D - Emba Salt Domes	Approx. 1:2,600,000
57	Characteristic Section - Emba Salt Dome Fields	- - -
58	Representative Oil Fields - Emba Region	Approx. 1:600,000
58 a	Makat	- - -
59	Baichunas	- - -

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Dwg	Title	Scale
60	Emba Region - Tentjak Sor Oil Field Litological Oil Deposits	- - -
61	Shubazknduk	Approx. 1:26,400
62	Ozinki Salt Dome	- - -
63	Salt Domes - Type Recent Abrasion	- - -
64	Salt Domes - Type Without Abrasion (Bossot, Makat, Shubarmudun)	- - -
65	Salt Domes - Type Transgressive cover (Jskine)	- - -
66	Salt Anticlines - Type Dzhusa - In South Ural Trough	- - -
67	Salt Anticlines - Type Aktubinsk	- - -
68	Salt Anticlines - Type Krasnoyarsk	- - -
69	Second Baku	Approx. 1:3,200,000
70	Second Baku - Pre Cambrian Structure	" "
71	Second Baku - Caledonian Structure	" "
72	Second Baku - Hercinian Structure	" "
73	Second Baku - Present Structural Situation	" "
74	Ural Mountains - Cross Section A-B	- - -
75	Second Baku - Generalized Gravity (Bouge) Map	Approx. 1:3,200,000
76	Second Baku - Lower Permian (Artinsk) Isopachs	" "
77	Second Baku - Oil Fields	" "
78	Correlation of Oil Bearing Series of Second Baku	- - -
79	Details of Oil Bearing Series of Krasnokamsk - Juimasy Fields - Middle Devonian	- - -
79 a	Tshimbaevo Region - Ural Trough (5 sheets)	- - -
79 b	Silurian in Ishimbaevo Region of Reefs East From Trough	- - -
80	Tshimbaevo Oil Fields - Reefs	Approx. 1:61,000
81	Tshimbaevo Cross Sections Section Through Jar Biskadan Reef Section Through Kashkaginsk Reef Section Through Kussapkulor Reef Section Through West Reef	Approx. 1:24,800
82	Tshimbaevo Cross Sections Section over East Reef Section over Southern and Eastern Reef	Approx. 1:24,800

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Dwg.	Title	Scale
83	Tshimbaevo Fields - Cross Sections 1 and 2	- - - -
84	West Side Ural Trough Illustrating Reef Building In Lower Permian	- - - -
86	Cross Section C-D	- - - -
87	Cross Section E-F	Approx. 1:196,000
88	Cross Section G-H	- - - -
89	Cross Section I-J	- - - -
90	Relation of Oil and Asphaltites	- - - -
90 a	(no title)	Approx. 1:620,000
90 b	Tuimara	- - - -
91	Sysran	- - - -
92	Sysran - Relation of Thickness to Saturation	- - - -
93	Jablonovyi Ovrag	1:152,000
94	Strelninski Structure	- - - -
95	Showing the Two Types of Flexure Structures Characteristic for Middle Volga District of Russian Platform	1:17,000 Approx. 1:500,000
96	Krasnokamsk - Polazna Oil Fields	Approx. 1:234,000
97	Krasnokamsk Field Structure	Approx. 1:36,000
98	Bono Medvidiza Flexure	Approx. 1:1,200,000 Approx. 1:198,000
99	Bon-Medvediza Structure	Approx. 1:6,600,000
100	North European Russia	- - - -
101	North European Russia - Pre Cambrian Structure	- - - -
102	North European Russia - Caledonian Structure	- - - -
103	North European Russia - Hercinian Structure	- - - -
104	North European Russia - Alpine Structure	- - - -
105	North European Russia - Present Structural Situation	- - - -
106	Timan Region - Showing General Type of Structure	- - - -

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Dwg.	Title	Scale
107	Ukhta - Cross Section A - Al	- - -
108	Leningrad (Petersburg) - Moscow - Possible Oil Bearing Region Being explored	Approx. 1:3,200,000
109	Dovonian Facies Between Leningrad - Moscow (2 sheets)	1:2,000 (Vert.)
110	Regional Correlation of Permian, Carboniferous and Dovonian, Leningrad to Ural Mts. (3 sheets)	1:5,000 (Vert.)
111	Dovonian Thickness Correlation at Various Distances Westward from Ural Folder Zone (3 sheets)	- - -
112	Carboniferous of the South Urals (2 sheets)	- - -
113	Meridian, Krasnokamsk - Tuymazy	- - -
113 a	Kungur Trough	- - -
114	Permian	1:5,000
115	Lena Taymir Region	Approx. 1:900,000
116	Lena Taymir Region - General Structure	" "
117	Cross Section - Taymir Region	Approx. 1:6,800,000
118	Stratigraphic Correlation From Taymir Mobile Belt Southeast Over Taymir Region of Salt Domes to Siberian Platform (3 sheets)	Approx. 1:40,000
119	Diagram Illustrating Oscillations	- - -
120	Facies - Lena Taymir Region	Approx. 1:9,000,000
121	Lena Taymir Region - Silurian and Lower Devonian	" "
122	Lena Taymir Region - Upper Devonian and Carboniferous	Approx. 1:900,000
123	Lena Taymir Region - Permian	" "
124	Lena Taymir Region - Lower and Middle Triassic	" "
125	Lena Taymir Region - Upper Triassic	" "
126	Lena Taymir Region - Jurassic and Lower Cretaceous	" "
127	Lena Taymir Region - Upper Cretaceous	" "
128	Diagram Illustrating Oscillations on Taymir Depression	- - -

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Dwg.	Title	Scale
129	General Map - Taymir Region (2 sheets)	1:330,000
130	Detail of Oil Fields Kozhevnikovo Ilia	1:25,000
131	Oilfields, Ilia and Kozhevnikov	1:25,000
132	Ilia Oil Field - Kozhevnikov Oil Field	1:10,000
133	Nordvik Oil Field	Approx. 1:100,000
134	Nordvik	1:25,000 and 1:50,000
135	Siberia - West and Middle	Approx. 1:9,100,000
136	Siberia - West and Middle - General Structure	Approx. 1:9,100,000
137	Cambrian Basin of Siberia	Approx. 1:10,000,000
138	Cambrian Basin of Siberia - Lower Cambrian Thickness Cm^1_1	" "
139	Cambrian Basin of Siberia - Lower Cambrian Thickness Cm^2_1	" "
140	Cambrian Basin of Siberia - Middle Cambrian Thickness Cm^1_2	" "
141	Cambrian Basin of Siberia - Uppermost Cambrian Cm^2_2	1:10,000,000
142	Eve Tas Structure (Riv Nerukta)	Approx. 1:300,000
143	Surface of Chara Series - Lower Cambrian Solianke structure Namana Structure	 Approx. 1:288,000 Approx. 1:156,000
144	Kusnez Basin - Cross Section A-B-C	Approx. 1:300,000
145	Sary Su - Salt domes in Prospection	- - -
146	Sary Su - General Section	- - -
147	Fergana Valley	Approx. 1:990,000
148	Fergana Valley - General Structure	Approx. 1:990,000
149	Cross Section A-B	- - -
150	Fergana Valley - General Section	Approx. 1:10,000
151	Fergana Valley - Oscillation Diagram	- - -
152	Fergana Valley - Jurassic Facies	Approx. 1:990,000
153	Fergana Valley - Cretaceous Facies	" "
154	Fergana Valley - Paleogene Facies	" "

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Dwg.	Title	Scale
155	Fergana Valley - Neogene Facies	Approx. 1:990,000
156	Fergana Valley - Oil Fields and Prospective Structures	" "
157	Selrokho Oil Field	Approx. 1:96,000
158	Shor Su Oil Field	Approx. 1:10,000
159	Shor Su Oil Fields	Approx. 1:5,900
160	Chimion Oil Fields	Approx. 1 20,700
161	East Siberia	Approx. 1:9,000,000
162	East Siberia - General Structure	Approx. 1:9,000,000
163	Sakhalin - Prospects and Oil Fields	Approx. 1:1,340,000
164	Sakhalin - General Cross Section	Approx. 1:680,000
165	Sakhalin - General Section	- - -
166	Sakhalin - Miocene and Pliocene Facies	Approx. 1:1,340,000
167	Change in Facies	- - -
168	Okha Oil Field	- - -
169	Oil Prospects or Oil Fields - Kamchatka	- - -
170	Kamchatka	Approx. 1:10,000
171	Caucasus	Approx. 1:3,200,000
172	Caucasus - General Structure	Approx. 1:3,200,000
173	Caucasus - Structure Trends	" "
174	Northwest Caucasus	Approx. 1:250,000
175	(No Title)	Approx. 1:250,000
176	Diagram Illustrating Major Oscillations	- - -
177	Caucasus - Generalized Gravity (Bouge)	Approx. 1:3,200,000
178	Caucasus - Triassic of Maikop Region	" "
179	Caucasus - Lower Jurassic Thickness	Approx. 1:3,200,000
180	Caucasus - Oxford Kimmeridge Facies (Jurassic)	" "
181	Caucasus - Callovanian-Kimmeridge (Jurassic) Isopachs	" "
182	Caucasus - Tithonian (Upper Malm Jurassic) Facies	" "

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Dwg.	Title	Scale
183	Caucasus - Lower Cretaceous and Upper Jurassic Isopachs	Approx. 1:3,200,000
184	Caucasus - Lower Cretaceous Isopachs	" "
184 a	Caucasus - Changes In Coastal Lines, Upper Jurassic and Lower Cretaceous	" "
185	Caucasus - Valenginian (Lower Cretaceous) Facies	" "
186	Caucasus - Hauterivian Albian (Lower Cretaceous)	" "
187	Caucasus - Cenomanian (Upper Cretaceous) Facies	" "
188	Caucasus - Maastrikht (Upper Cretaceous) Facies	" "
189	Caucasus - Total Upper Cretaceous Isopachs	" "
190	Caucasus - Paleocene (Tertiary) Facies	" "
191	Caucasus - Lower Maykop (Upper Oligocene) Tertiary Facies	" "
192	Caucasus - Upper Maykop (Lower Miocene) Tertiary Facies	" "
193	Caucasus - Tortonian - Sarmatian (Upper Miocene) Tertiary Thickness	" "
194	Caucasus - Upper Sarmat (Miocene) Isopachs	" "
195	Caucasus - Upper Sarmat (Tertiary) Isopachs	" "
196	Grosnyi - Dagestan Oil District - General Structural Trends	Approx. 1:800,000
197	Grosnyi - Dagestan Oil District - Oilfields Groznyi and Dagestan	Approx. 1:800,000
198	Grosnyi-Dagestan Oil District Coreelation	Approx. 1:20,000
199	Grosnyi-Dagestan Oil District- Oil Fields - Chokrak (Miocene) Horizon M_3^2	Approx. 1:800,000
200	Oil Fields - Karaganian (Miocene) Horizon M_3^3	" "
201	Cross Sections Grosnyi	Approx. 1:300,000
202	Grosnyi - Cross Section Between Terek Ridge and Buried Bonez Basin	Approx. 1:2,800,000
203	Grosnyi - Types of Overthrusting Characteristic of Region	- - -
204	Terek Ridge (Grosnyi) - Cross Sections	- - -
205	South Malgoben and Voznejsenkaya (No's 3, 4, 5, 6)	various

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Dwg	Title	Scale
206	Old Grosnyi Field (No's 7,8)	various
207	New Grosnyi (No 9)	Approx. 1:20,000 and 1:100,000
208	Dagestan - Tzberbash and Achi Su Oil Fields (No's 3,4)	Approx. 1:328,000 and 1:17,100
209	Dagestan - Borekei Oil Field(No 6)	Approx. 1:48,800
210	Dagestan - Berbent (No 9) - New Oil Field (1947)	Approx. 1:96,000 and 1:46,000
211	Caucasus - Grosnyi Productive Series of Pliocan	Approx. 1:3,200,000
212	Caucasus - Continental Pliocen Series Analogous to Productive Series of Apsheron Peninsula, Kura - Depression and Red Series of West Turkmenia	1:800,000
213	Grosnyi - Dagestan Oil District - Prospective Areas From Underground Water	1:800,000
214	Northwest Caucasus Oil District (Kuban Black Sea)	Approx. 1:1,500,000
215	Northwest Caucasus - Apsheronian Oil Field (No 1)	Approx. 1:22,500
216	Khodyzhenski Oil Field (No 4) - Khodyzhenskaia Field	Approx. 1:20,000 and 1:49,500
217	Neftjano Schirvansk Oil Field	- - -
218	Kaluzhskaia Oil Field (No 12)	Approx. 1:10,000 and 1:4,000
219	Keslerovo - Varenkovo Oil Fields (No's 23,26)	Approx. 1:41,000
220	Northwest Caucasus - Taman Peninsula	Approx. 1:420,000 and 1:100,000
220 a	Kerch Peninsula	Approx. 1:560,000
221	Turkomania	Approx. 1:9,200,000
222	Turkomania - General Structure	Approx. 1:9,200,000
223	Turkomania - General Gravity	" "
224	Kopet Dag - Bukhara	Approx. 1:20,000
225	Cross Section A' - B' of Facies and Thickness Without Structure	- - -
226	Cross Section Across Turkomanian Trough	Approx/ 1:1,000,000

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Dwg.	Title	Scale
227	Turkomanian Trough - Oscillation Diagram	- - -
228	Turkomania - Lower Jurassic Facies	Approx. 1:9,200,000
229	Turkomania - Upper Jurassic Facies	" "
230	Turkomania - Lower Cretaceous Facies	" "
231	Turkomania - Cenomanian Facies	" "
232	Turkomania - Paleogen Facies	" "
233	Turkomania - Miocene Facies	" "
234	Boundaries of Miocene Transgression	Approx. 1:7,000,000
235	Kopat Dag - Kizyl Arvat Cross Section C-D	Approx. 1:50,000
236	East Part of Turkomanian Trough	Approx. 1:3,200,000
236 a	Haurdag Oil Field	Approx. 1:40,000
237	North Slope of Turkomanian Trough - Oil Seepages	Approx. 1:5,000,000
238	Turkomania - Prospective Area of Turkomania Trough	Approx. 1:9,200,000
239	Baku District and Kura Depression	Approx. 1:3,300,000
240	Baku District and Kura Depression - General Structure	Approx. 1:3,200,000
241	Correlation of Tertiary	Approx. 1:10,000
242	Correlation of Tertiary of Kura and Turkomanian Depression (2 sheets)	Approx. 1:10,000
243	Baku District and Kura Depression - Gravimetric	Approx. 1:3,200,000
244	Baku District and Kura Depression - Gravimetric	" "
245	Baku District and Kura Depression - Paleogen Facies	" "
246	Baku District and Kura Depression - Miscene Facies	" "
247	Baku District and Kura Depression - Continental Facies	" "
248	Baku District and Kura Depression - Middle and Upper Productive Series	Approx. 1:3,200,000
249	Baku District and Kura Depression - Pliocene Productive Series Isopachs	" "
250	(No title)	Approx. 1:500,000
251	Distribution of Facies, Productive Series (Pliocene)	Approx. 1:500,000

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252	(No title)	Approx. 1:3,000,000
253	Cross Section - Facies - Structures Taken Out	Approx. 1:660,000
254	Small Caucasus - Cross Section	Approx. 1:2,500,000
254 a	Baku District and Kura Depression - Age of Oil Bearing Series of Caspian and Black Sea Depression	Approx. 1:3,200,000
255	Baku District	Approx. 1:650,000
256	Baku District - Structural Trends	Approx. 1:650,000
257	Baku District - Oil Fields and Prospects	" "
258	Transition of Structures	- - -
259	Transition of Structures - East Plunge of Great Caucasus	- - -
260	Section of Productive Series - Kabristan to Kura Depression	Approx. 1:10,000
261	Baku District - Distribution of Productive Series	Approx. 1:650,000
262	Baku District - Classification of Miocene Possibilities	" "
263	Bibi Eibat (No 37) Oil Field	Approx. 1:50,000
264	Kara Chukhur Oil Field (No 16)	- - -
265	Kara Chukhur Oil Field (No 16)	- - -
266	Puta (No 39) Oil Field	- - -
267	Pirsagat Oil Field (No 49)	- - -
268	Lok Batan Oil Field	Approx 1:14,000
269	Utalgi Oil Field (No 57) Keych Oil Field (No 58) Shubany - Atashki Oil Field (No 33) Binagady Oil Field (No 22)	- - - - - - - - - - - -
270	Cross Section	Approx. 1:82,000
271	Kirovobad Area (Post War Development)	Approx. 1:600,000
272	Kirovobad Area - Gravity Map Bouge Reduction	Approx. 1:610,000
273	Neftcharla Oil Field (No 52)	- - -
274	East Georgia	Approx. 1:350,000

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Dwg.	Title	Scale
275	East Georgia - Oil Bearing Structures, Structural Trends	Approx. 1:350,000
276	Mirsaani Oil Field	- - -
277	Mlashis Khevi	- - -
278	West Turkomanian Oil District	Approx. 1:1,500,000
279	Cross Section Showing Facies of Productive Red Series - West Turkomenia	Approx. 1:2,500,000
280	Limit of Akchagylian Pliocen	- - -
281	Cross Section Showing Change of Facies in Miocen and Pliocen	Approx. 1:4,200,000
282	???? Oil Field	- - -
283	Neftedag Oil Field Structure	- - -
284	Neftedag	- - -
285	West Turkomania Stratigraphic Coreelation	- - -

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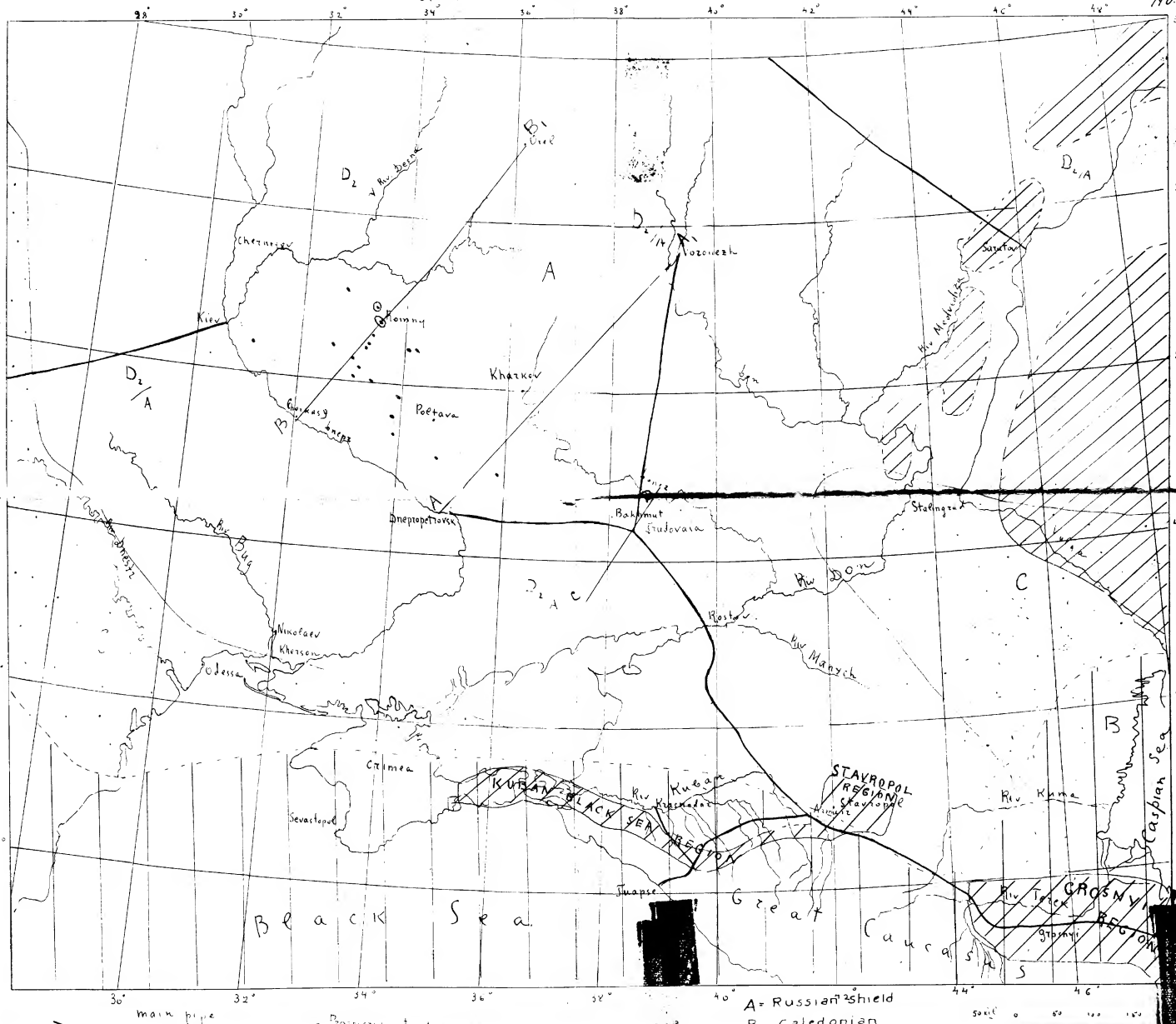
Ukrainian Depression Caledonian structure

~~AN 18~~ No. 20



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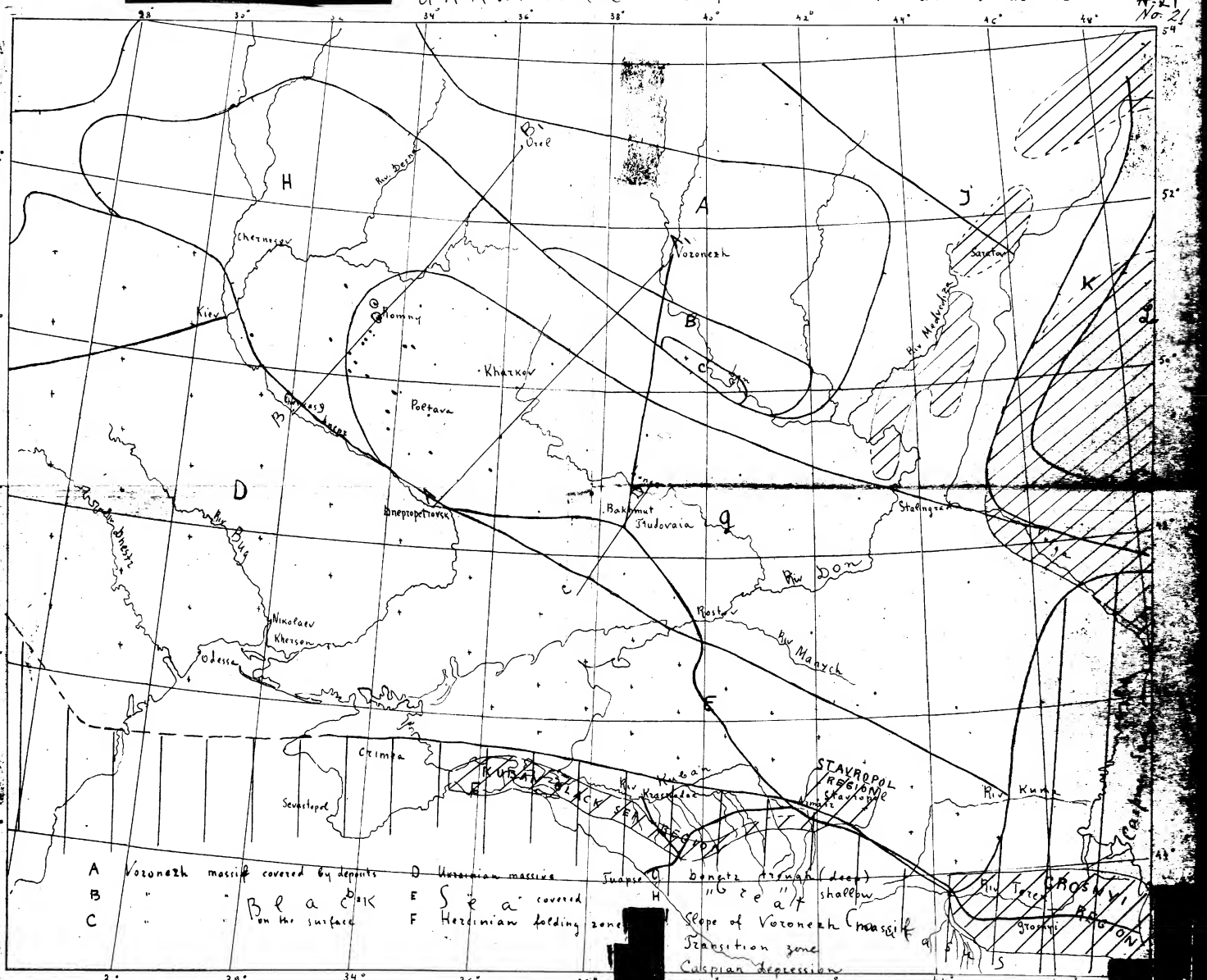
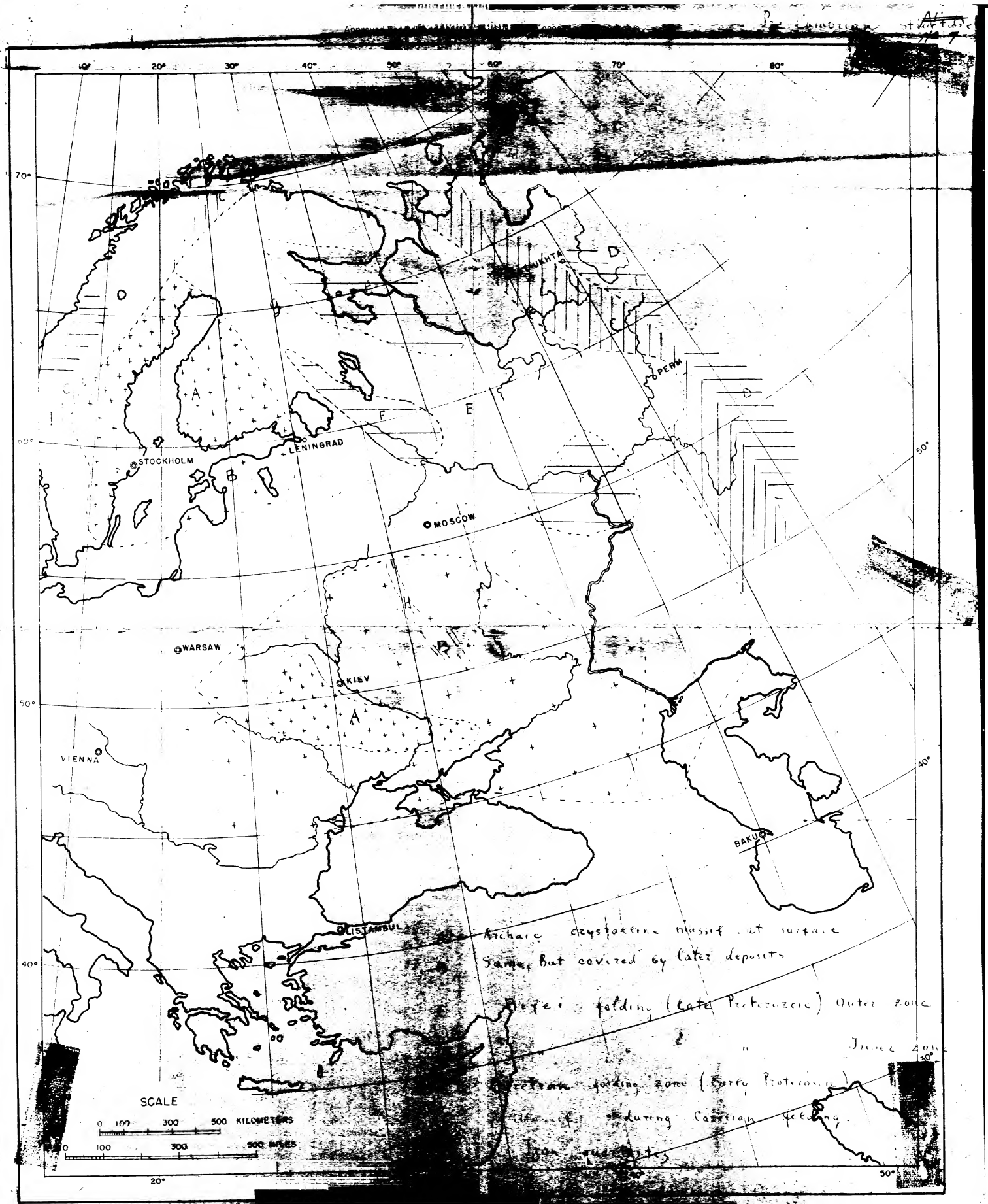
UKRAINIAN Depression Hercinian structure

~~No. 18~~ ~~No. 21~~ No. 21





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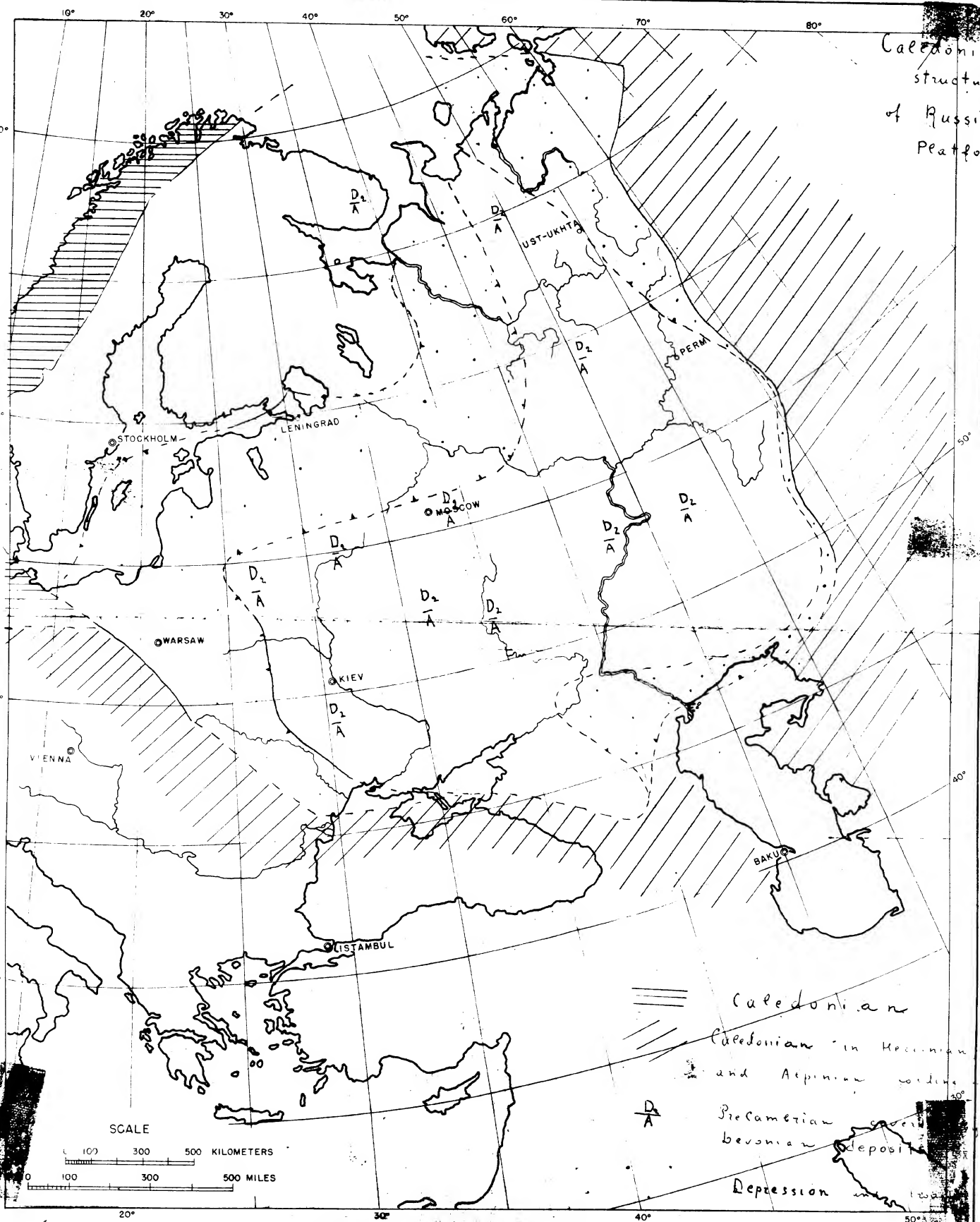
No. 8

Caledonian structure of Russian Platform



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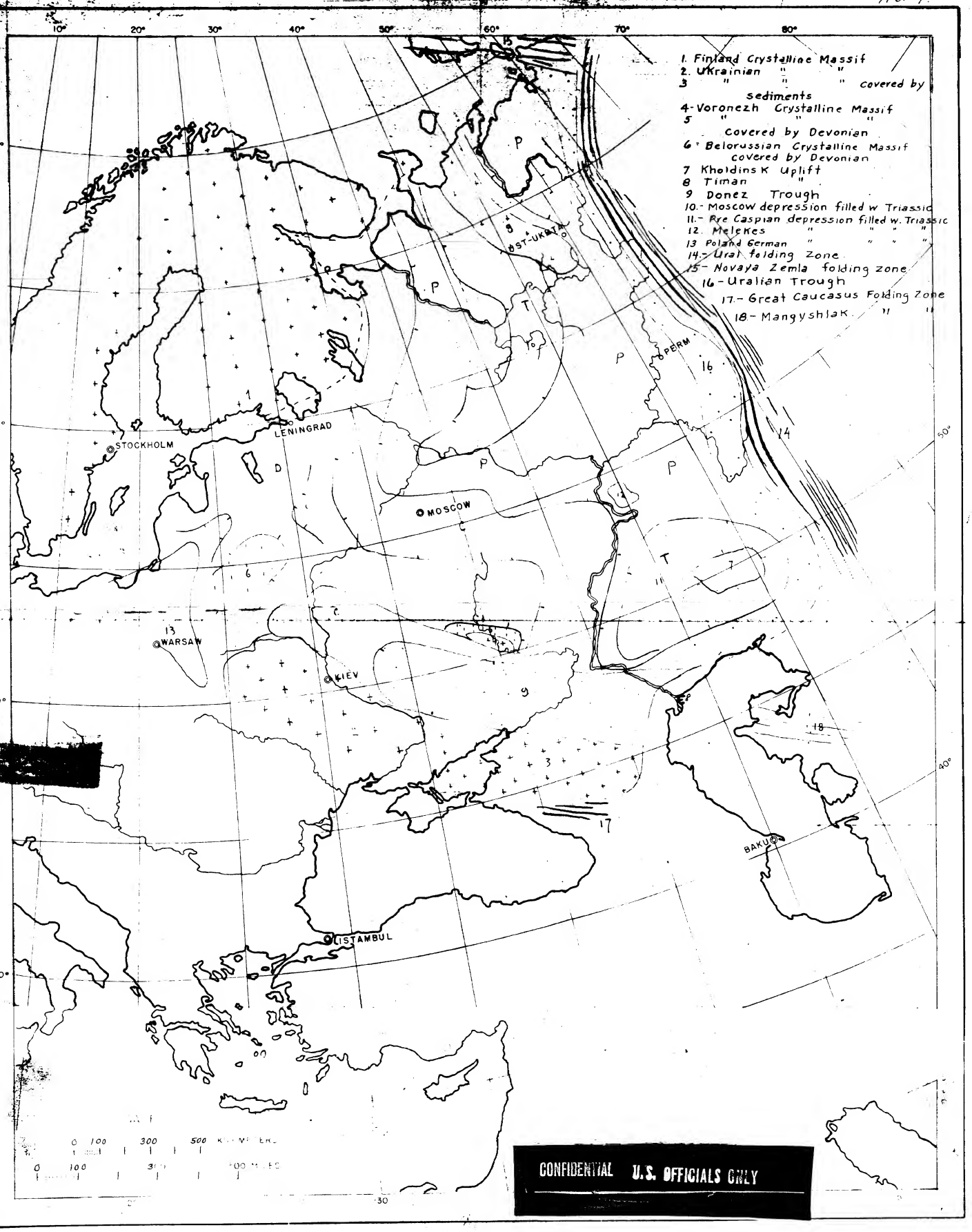
HERCINIAN STRUCTURE

Hercinian

No. 9



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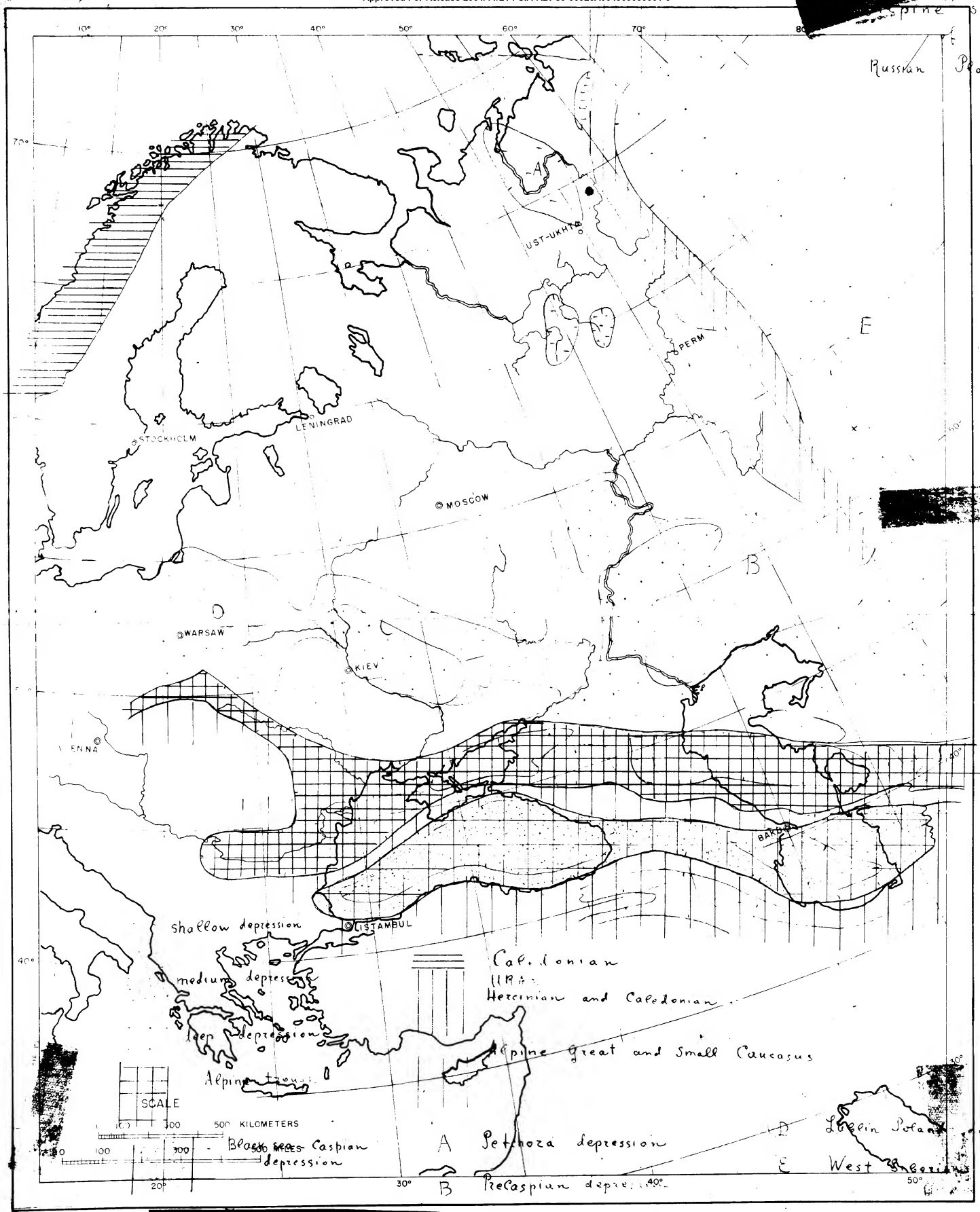

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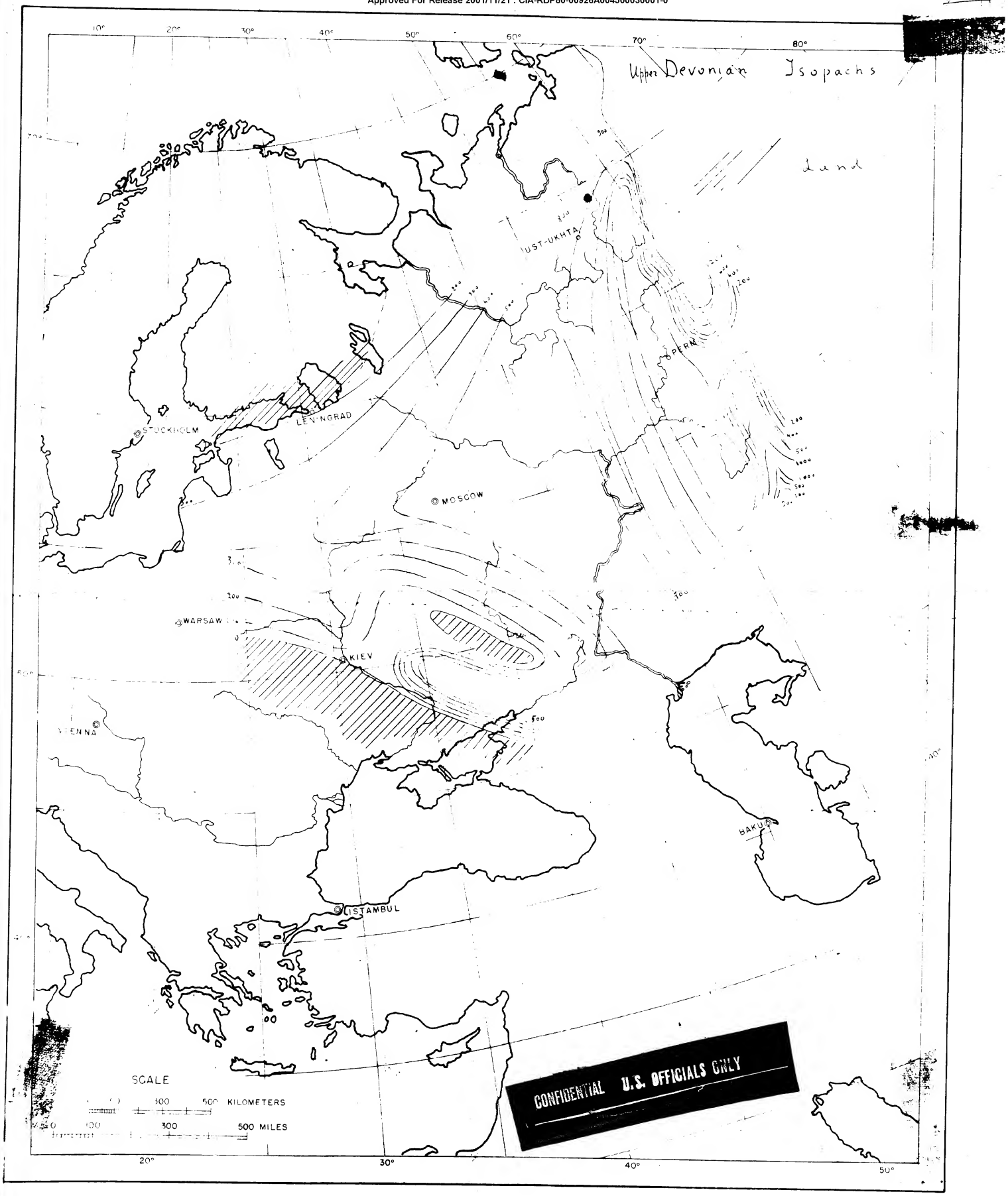

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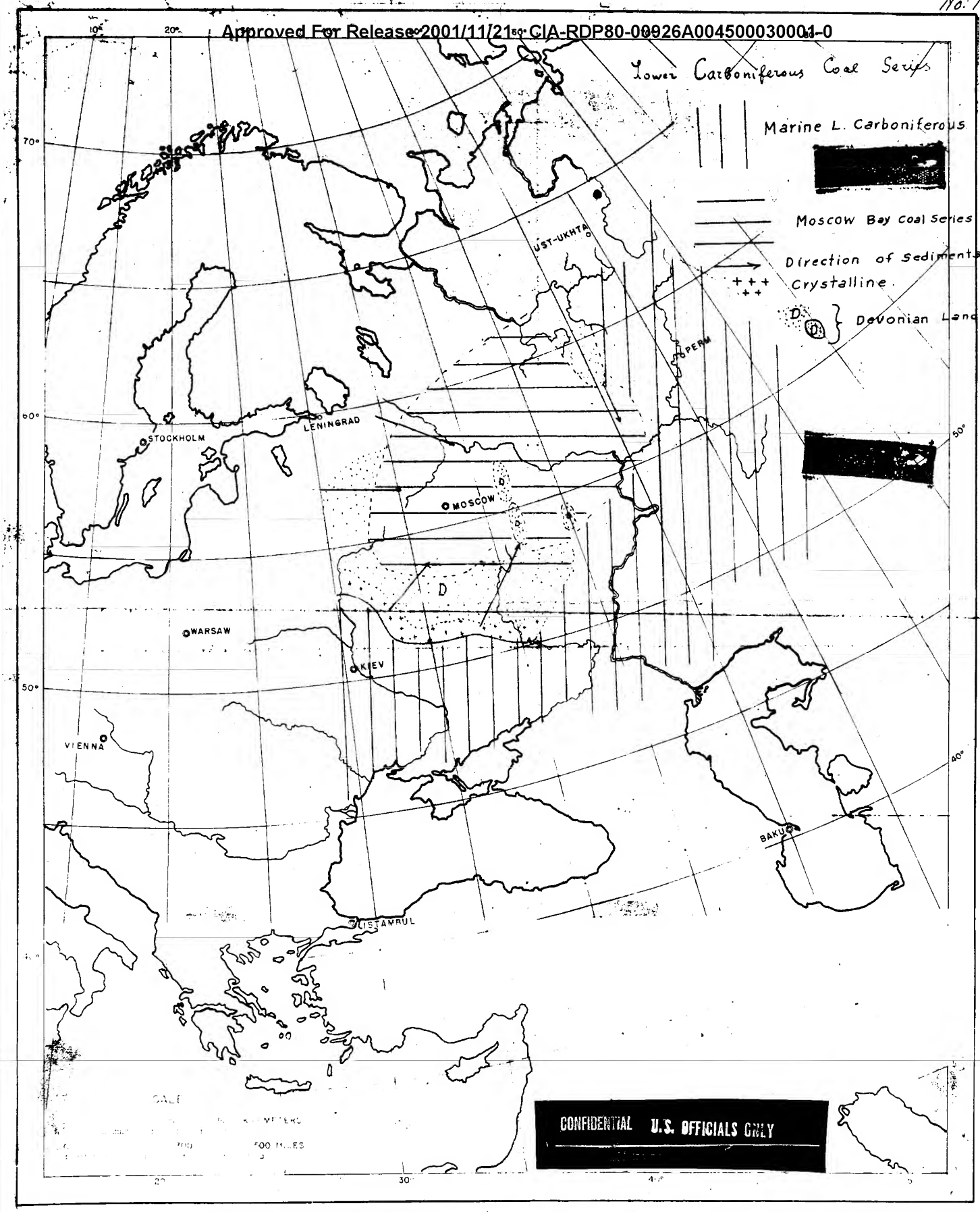

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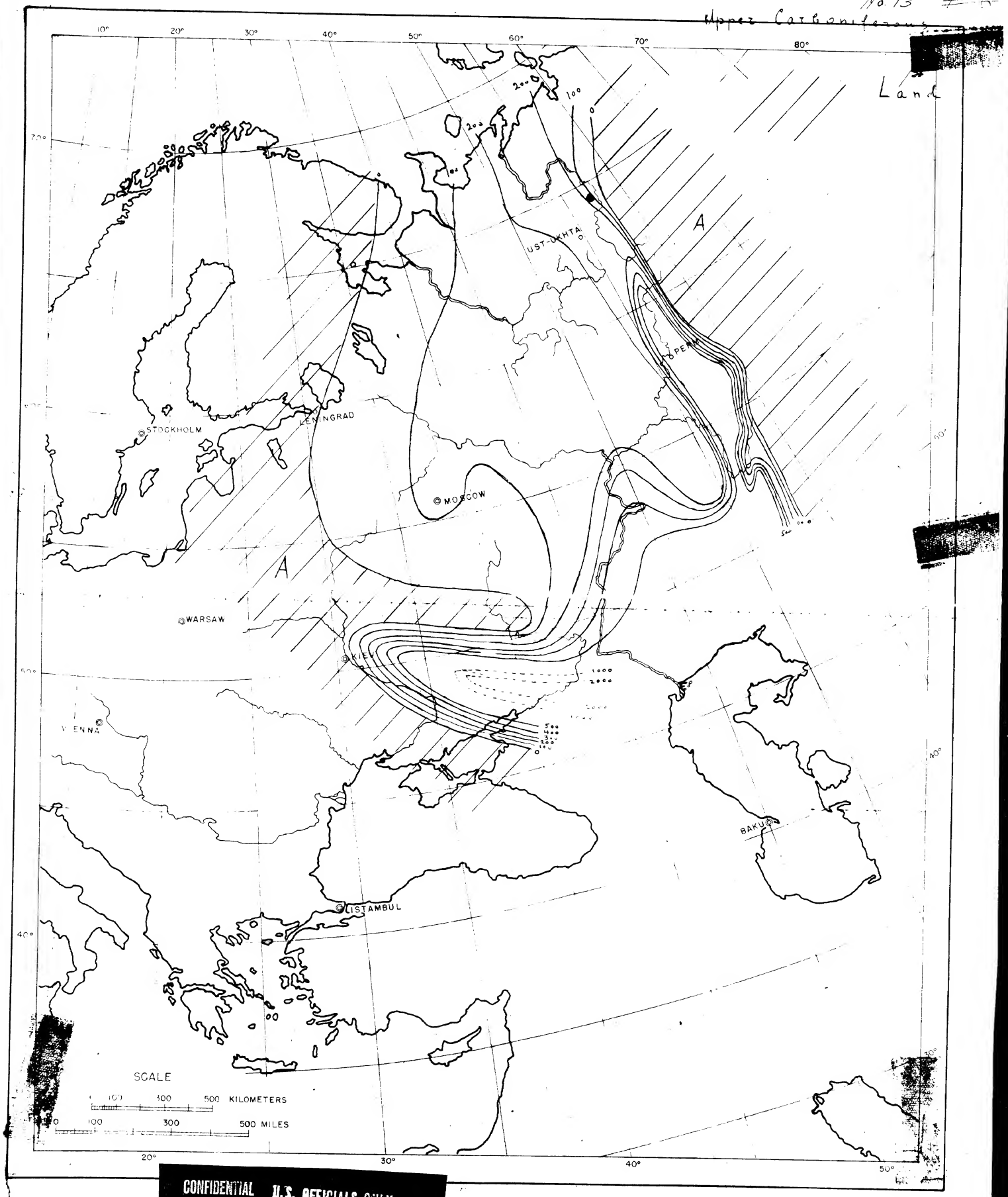
No. 13 N

Upper Carboniferous



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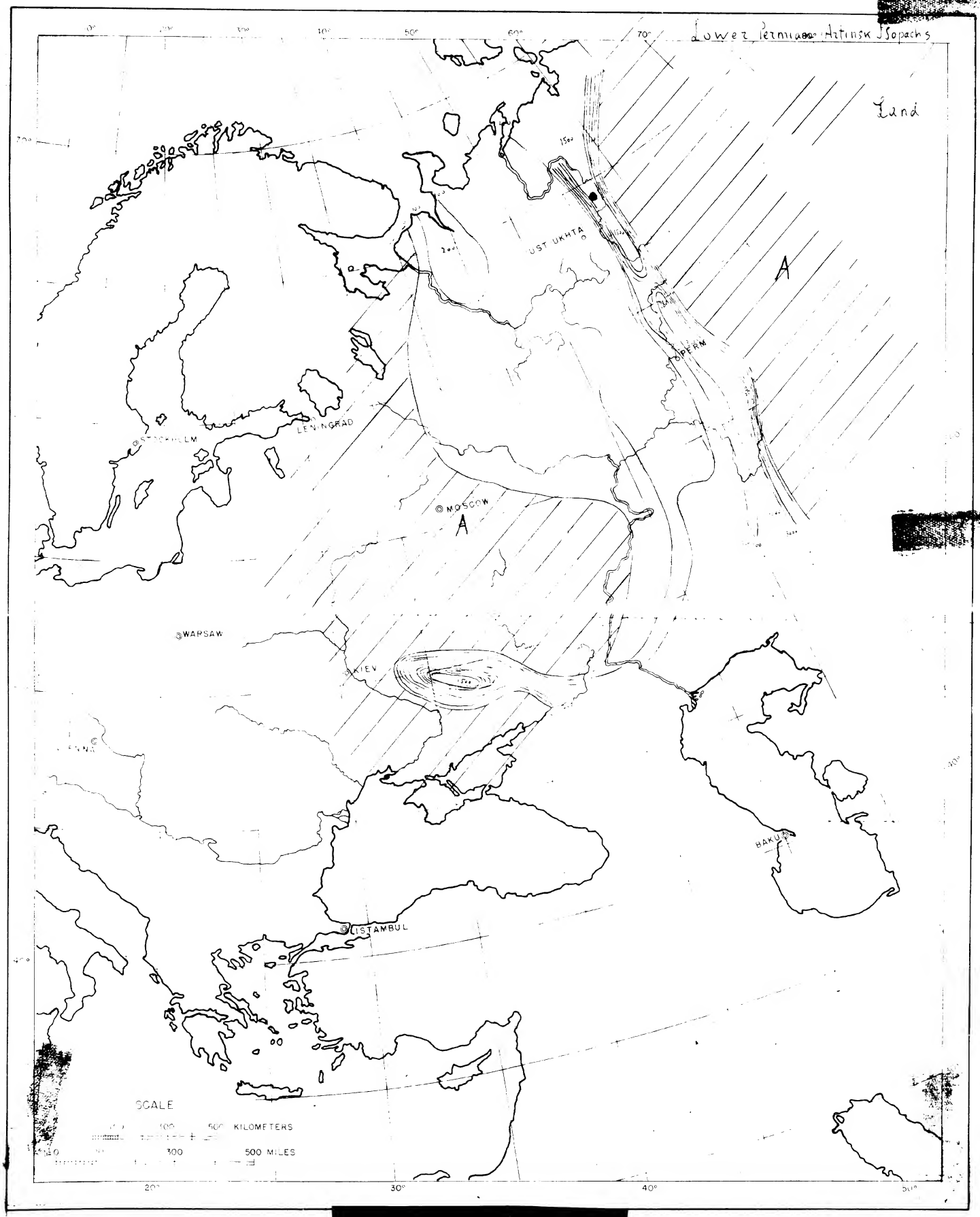

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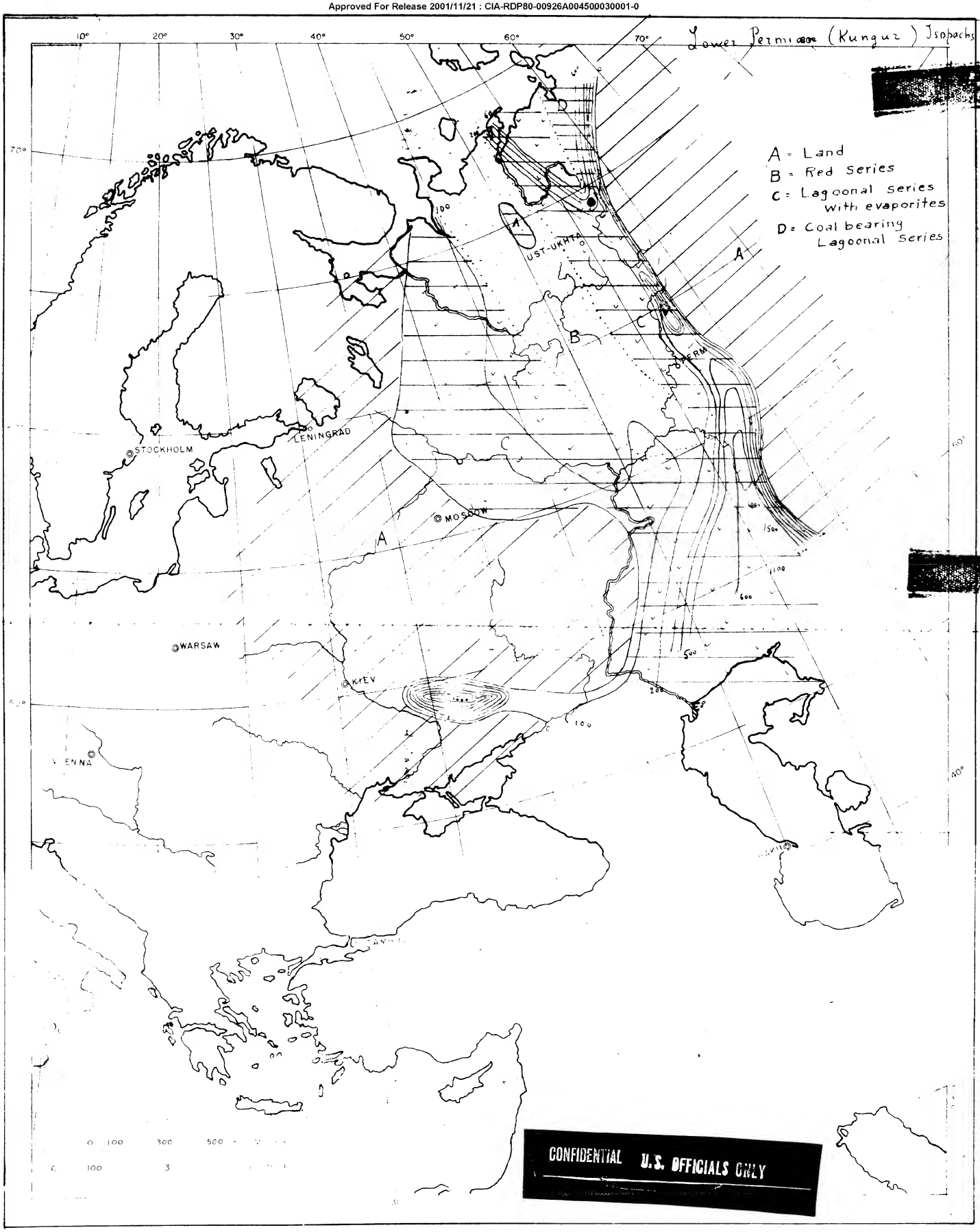
No. 15 ~~Al No~~



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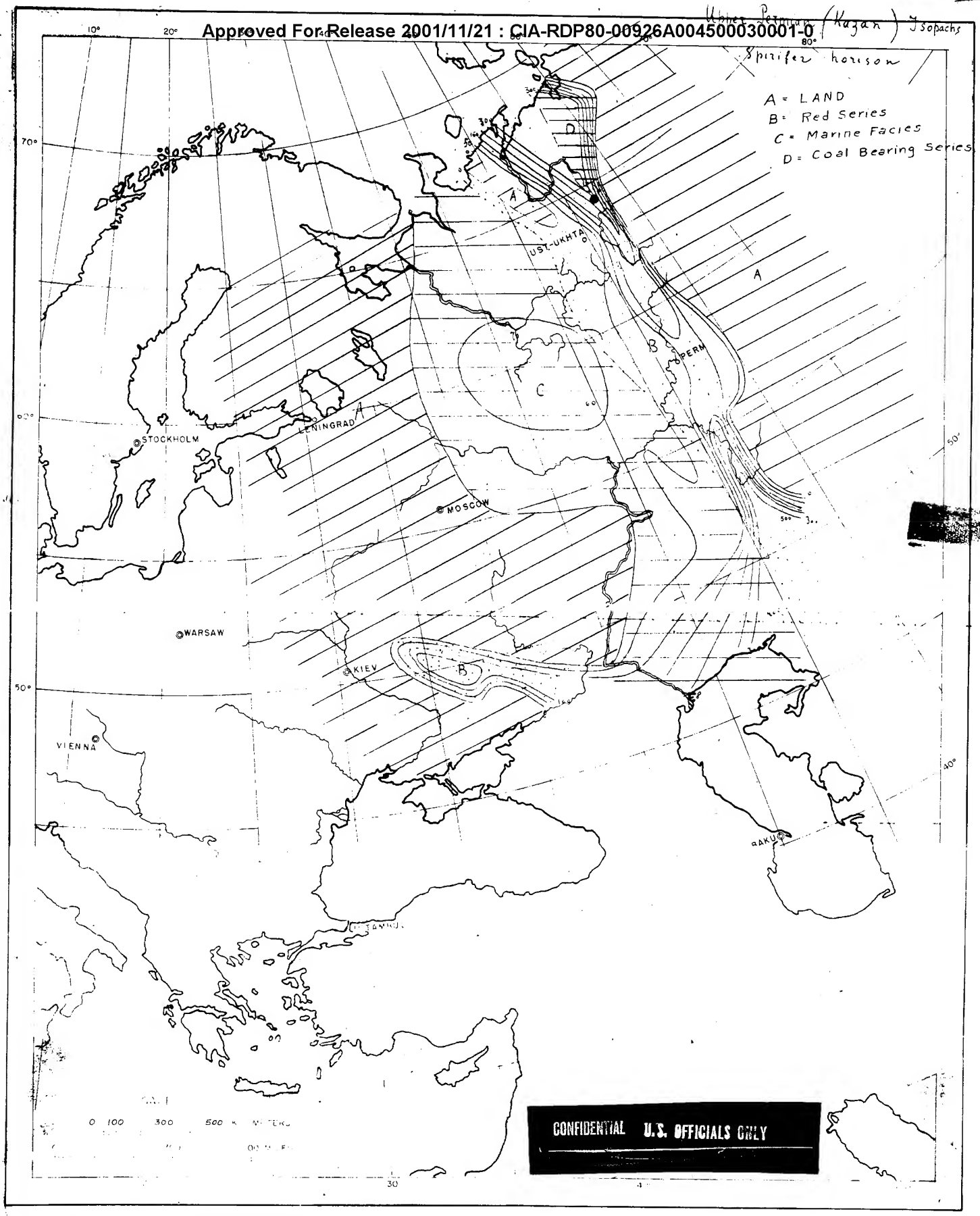
Upper Permian (Kazan) Isopachs

Spirifer horizon

A = LAND
B = Red Series
C = Marine Facies
D = Coal Bearing Series



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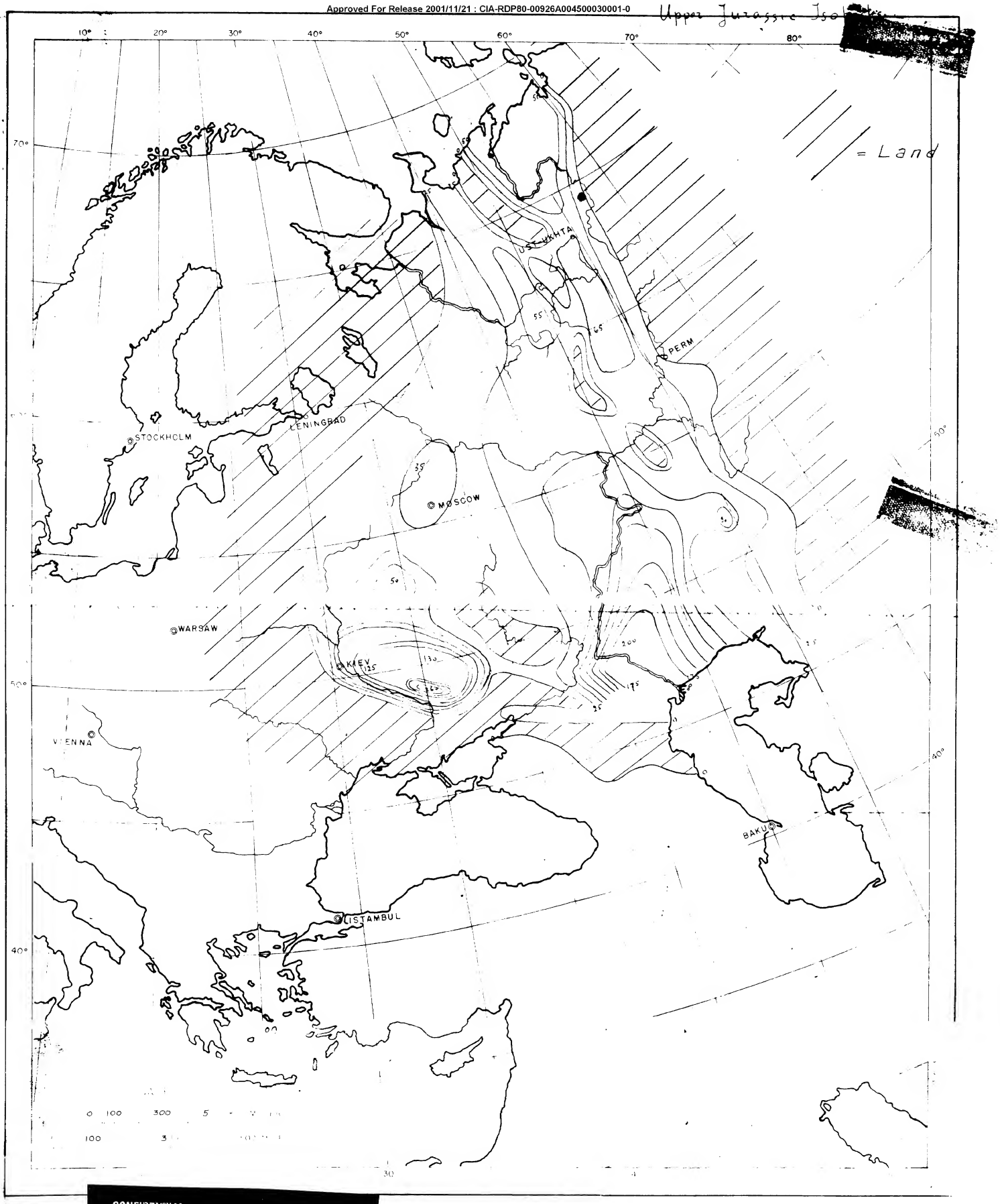
Upper Jurassic Isol[redacted]



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Ukrainian Depression

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N. 18

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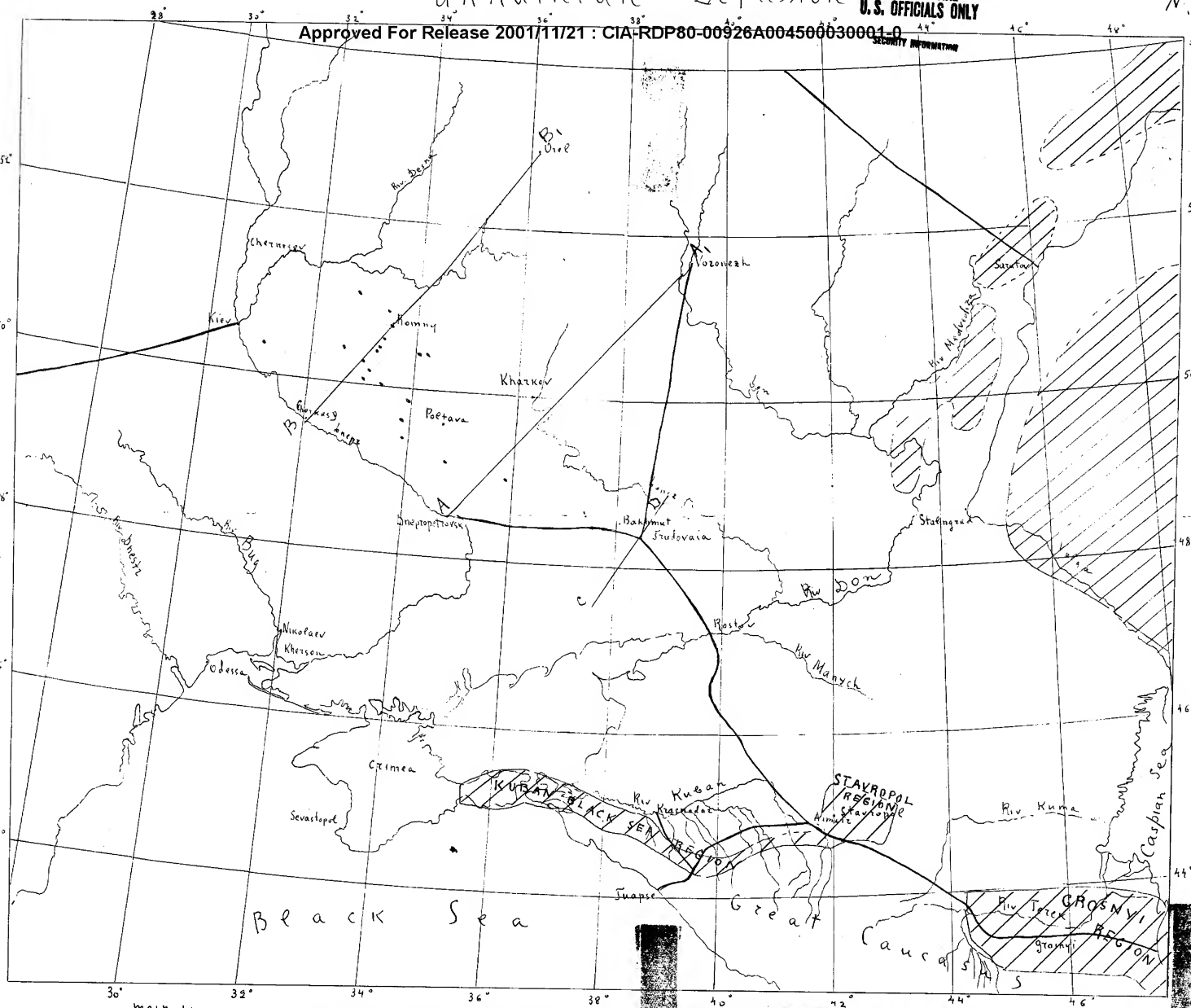

main pipe line

prospective oil fields

oil fired

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VERTICAL FILE

[redacted]

25X1A

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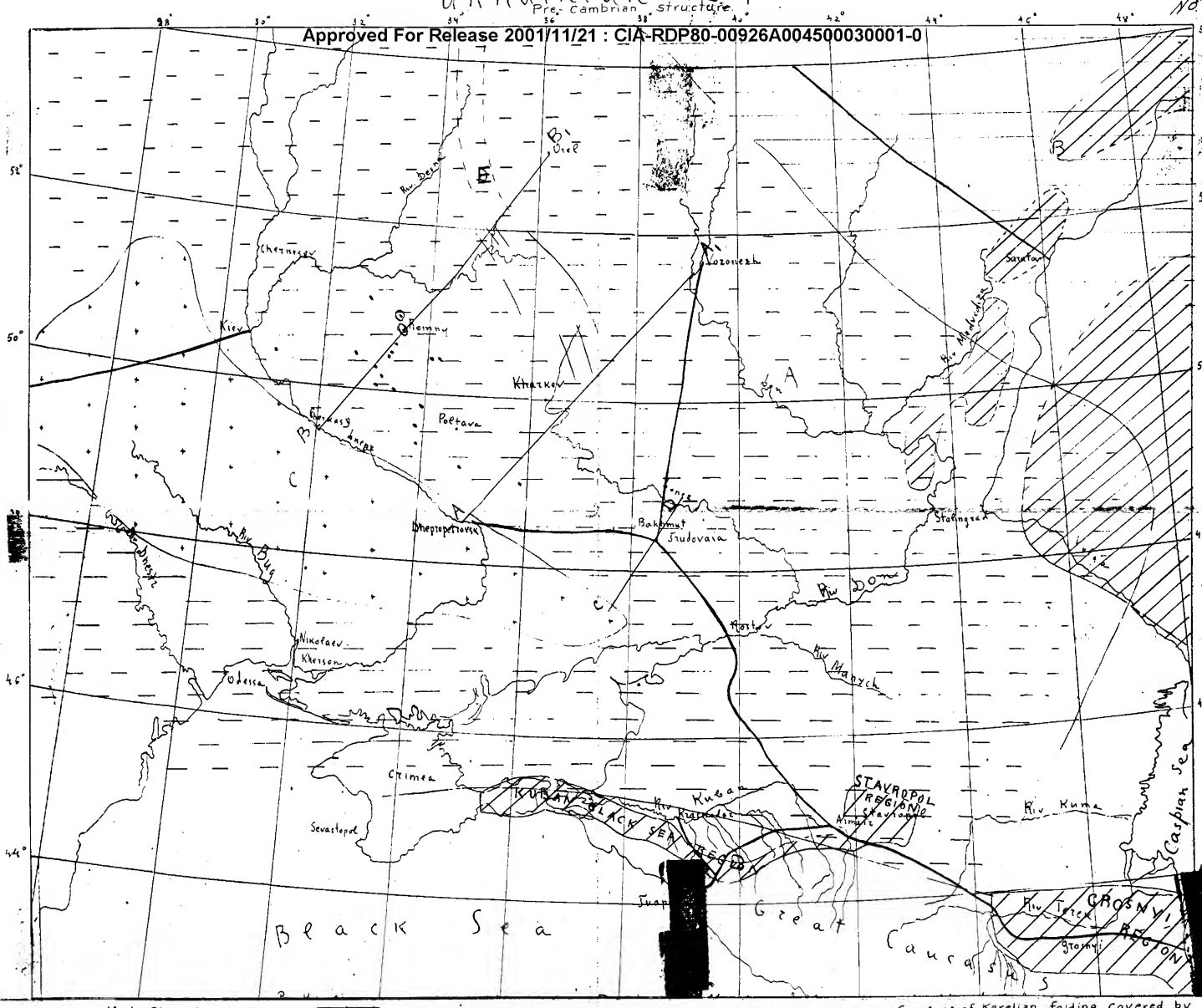
Ukrainian Depression

Pre-Cambrian structure

~~A-4-1-57~~ No 19



Main Pipe Line

Prospective structure

Oil Field

Neighboring Oil Region

A Pre-Cambrian (Pre-Karelian) massive covered by deposits

C – Area of Karelian folding covered by deposits

D – Area of the Great Caucasus

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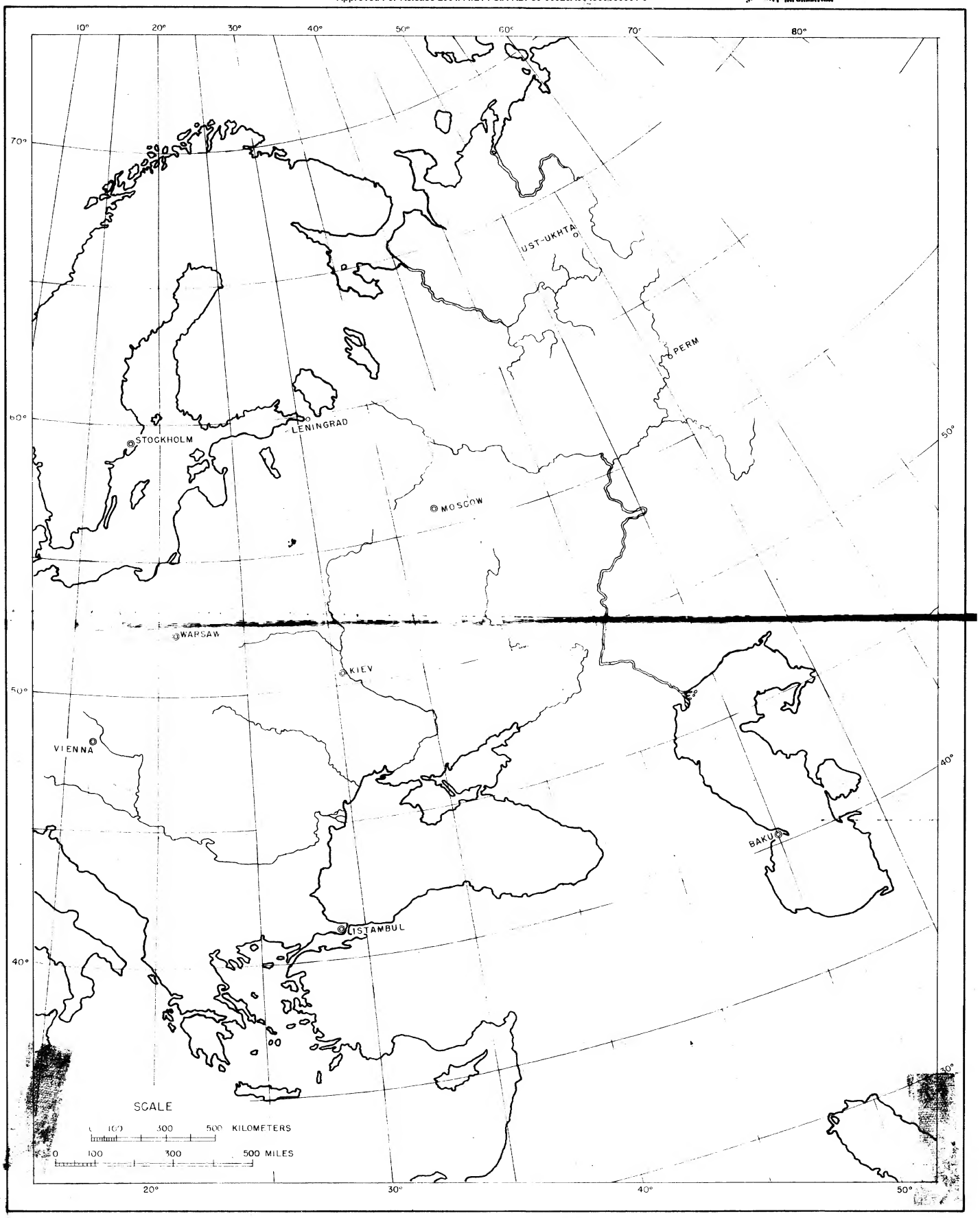
SECURITY INFORMATION

N° 6



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25X1A

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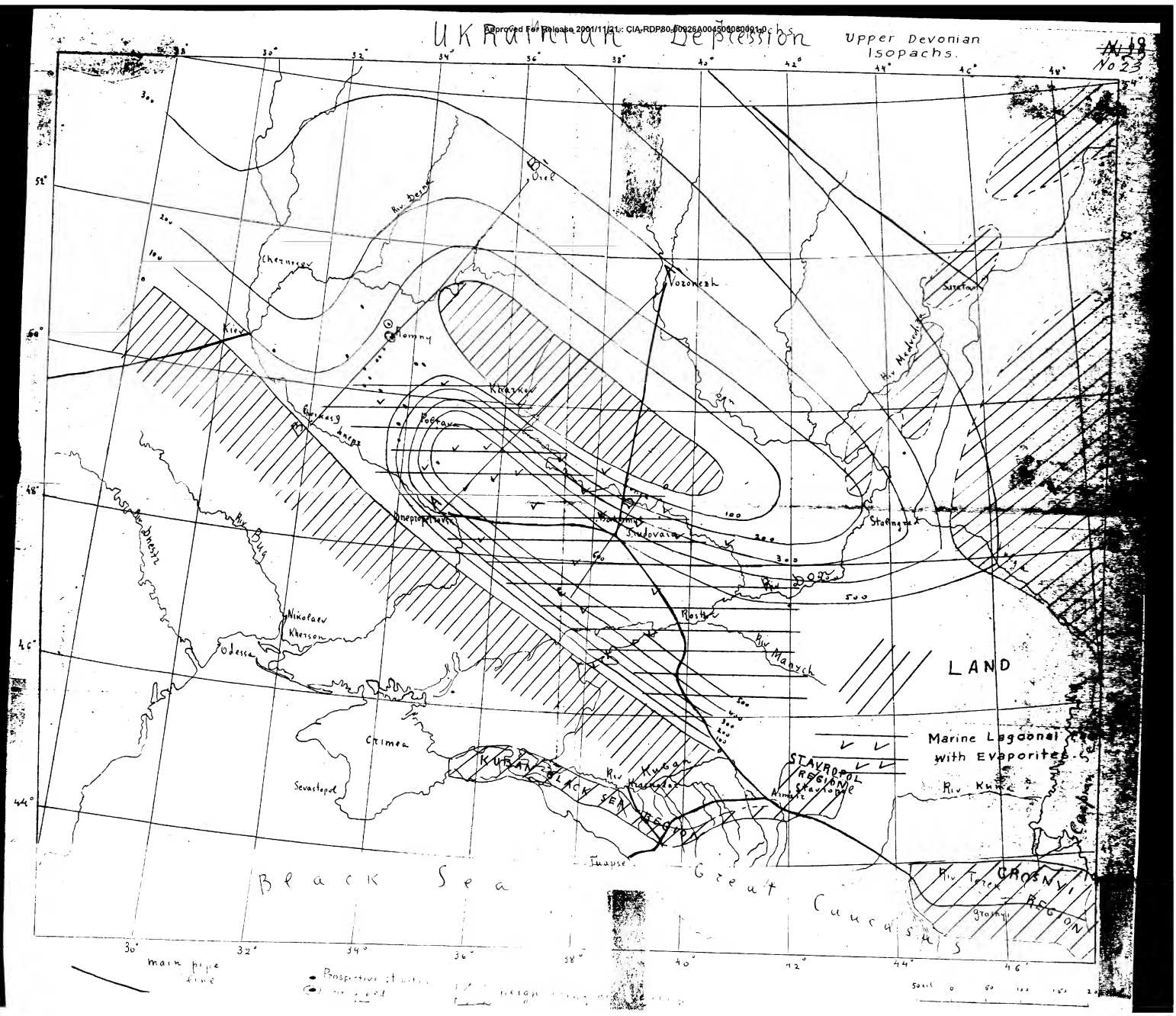
Ukrainian Depression

Upper Devonian
Isopachs.

~~No 19~~
No 23



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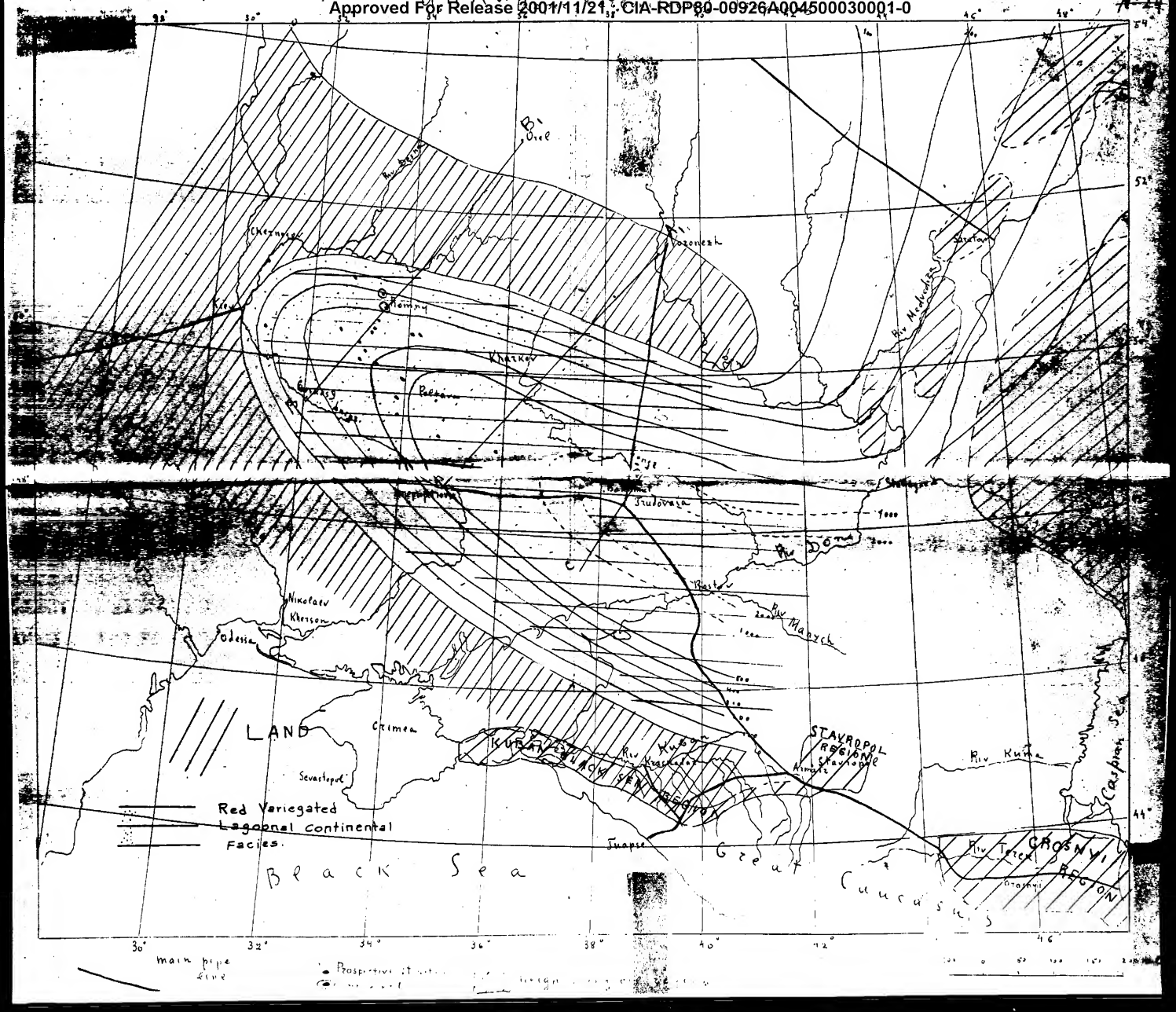
Ukrainian Depression

No. 24 ~~N 18~~



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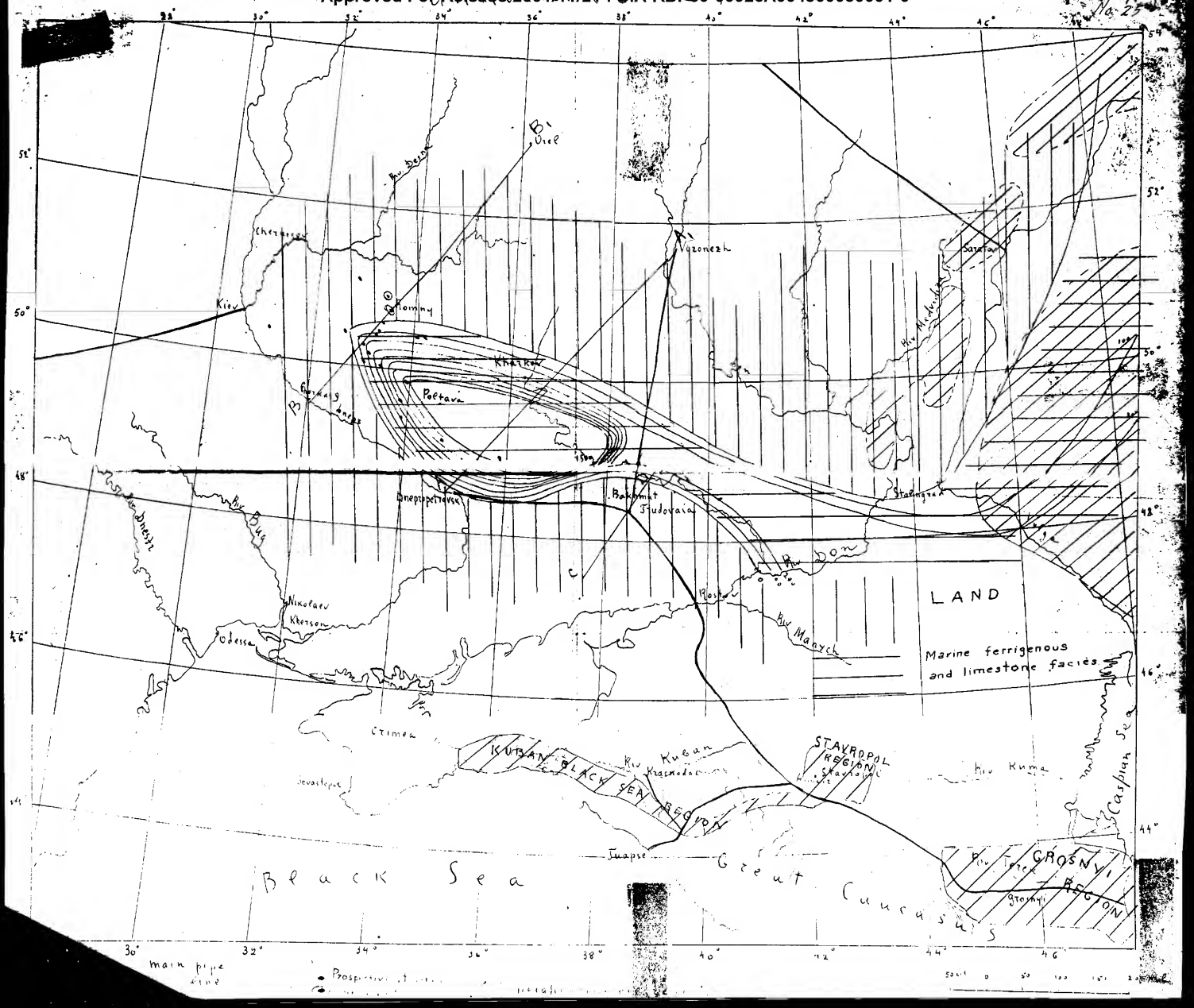
Lower Permian (Artinsk) [illegible] Permian (ARTINSK) Isopachs

No. 25



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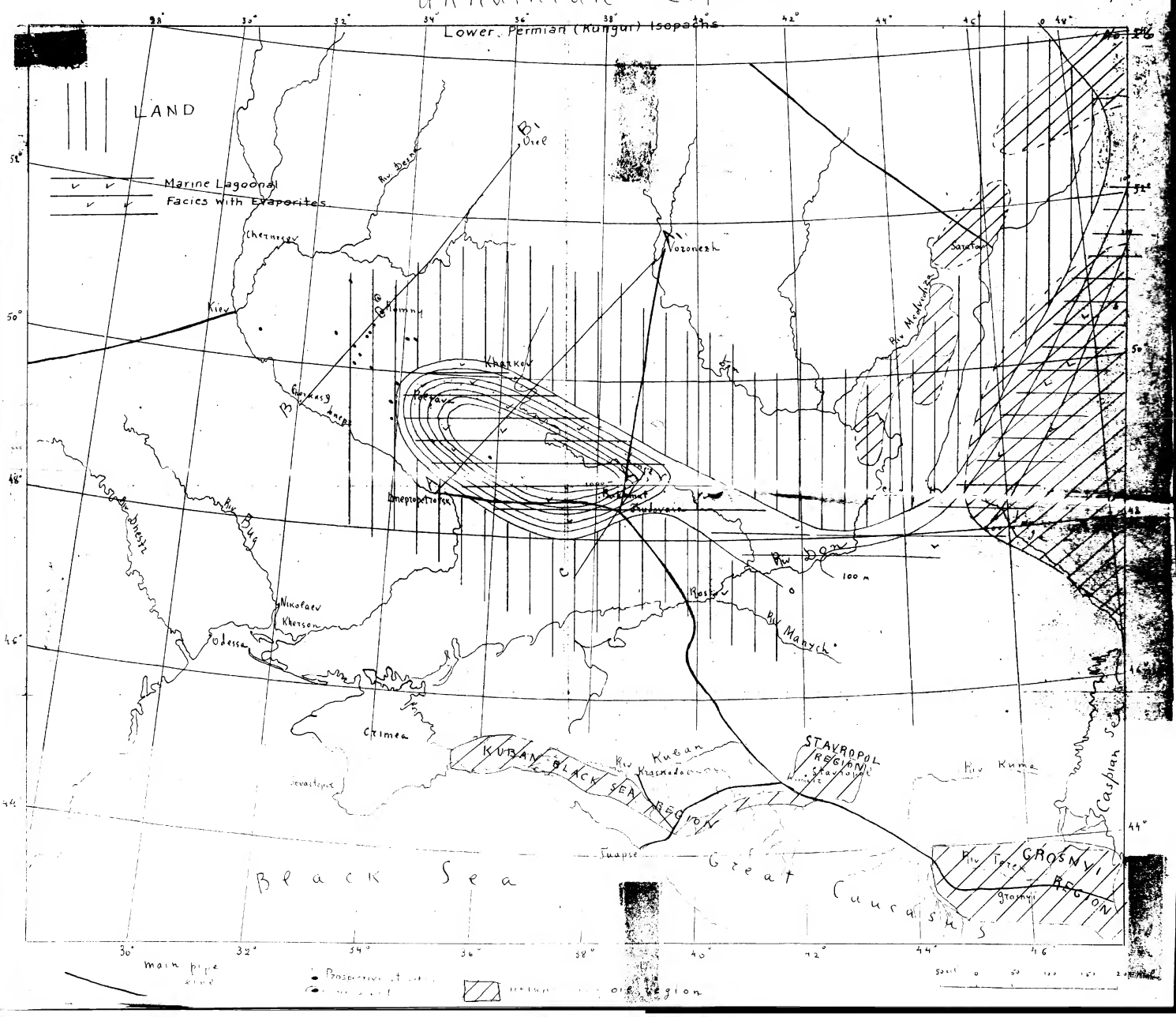
Ukrainian Depression

No 26 ~~N 18~~

Lower Permian (Kungur) Isopachs



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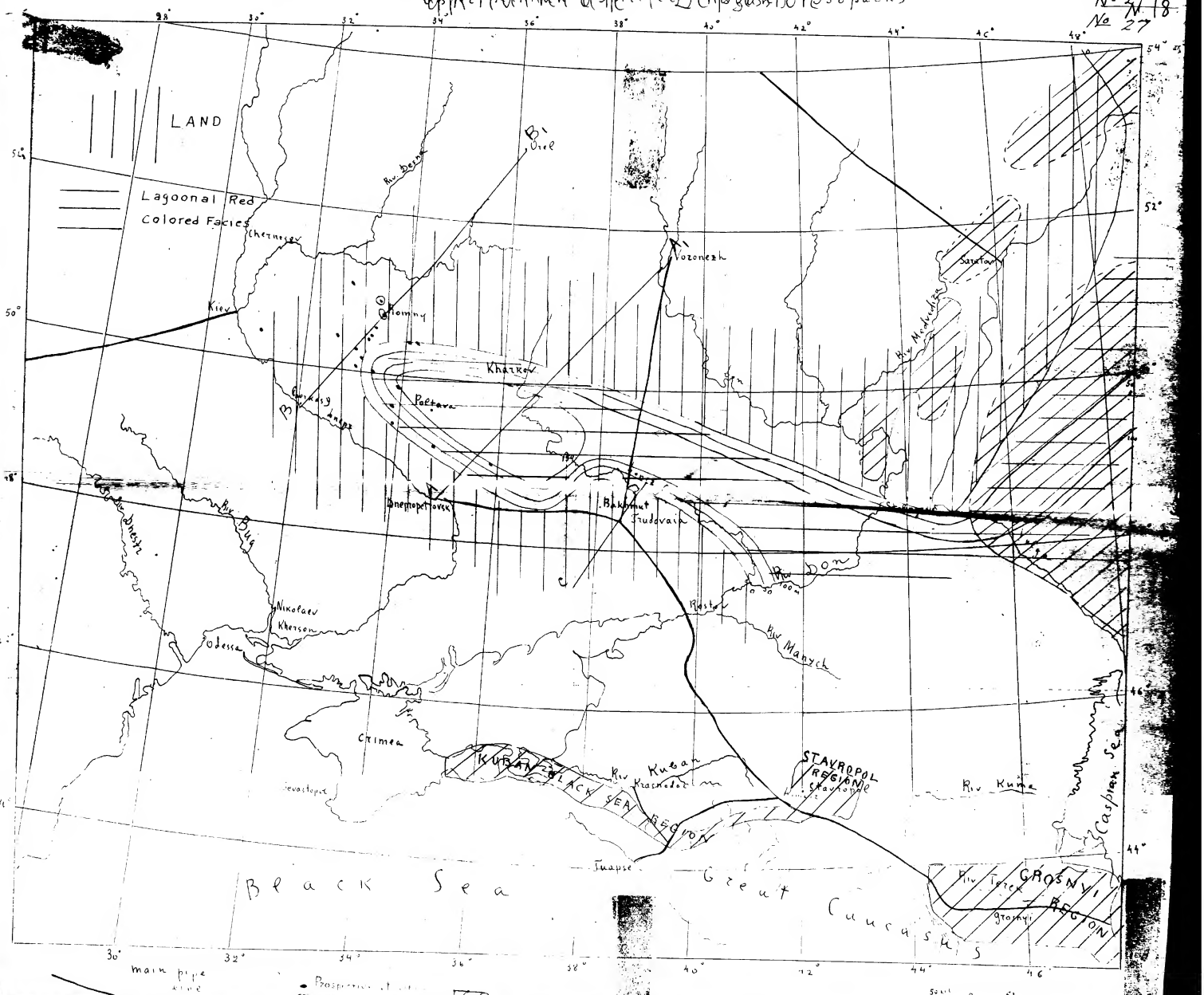
Upper Permian
(Spirifer-Kazan) Isopachs

Upper Permian [illegible] Basin Isopachs

No 27 N. 18
No 27



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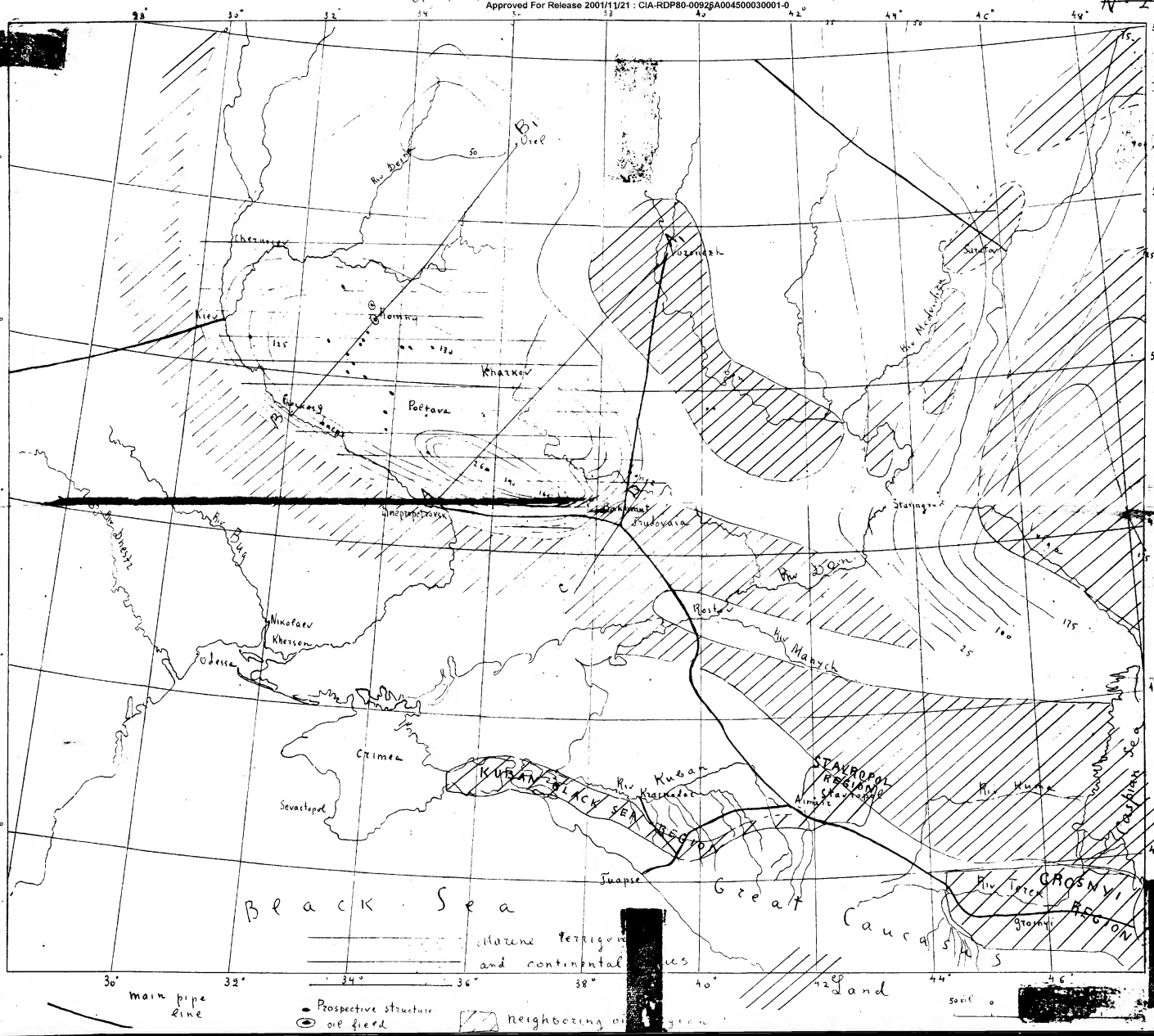
Ukrainian Depression Upper Jurassic Isopachs № 28 ~~N 18~~ ~~N 28~~



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Ukrainian depression

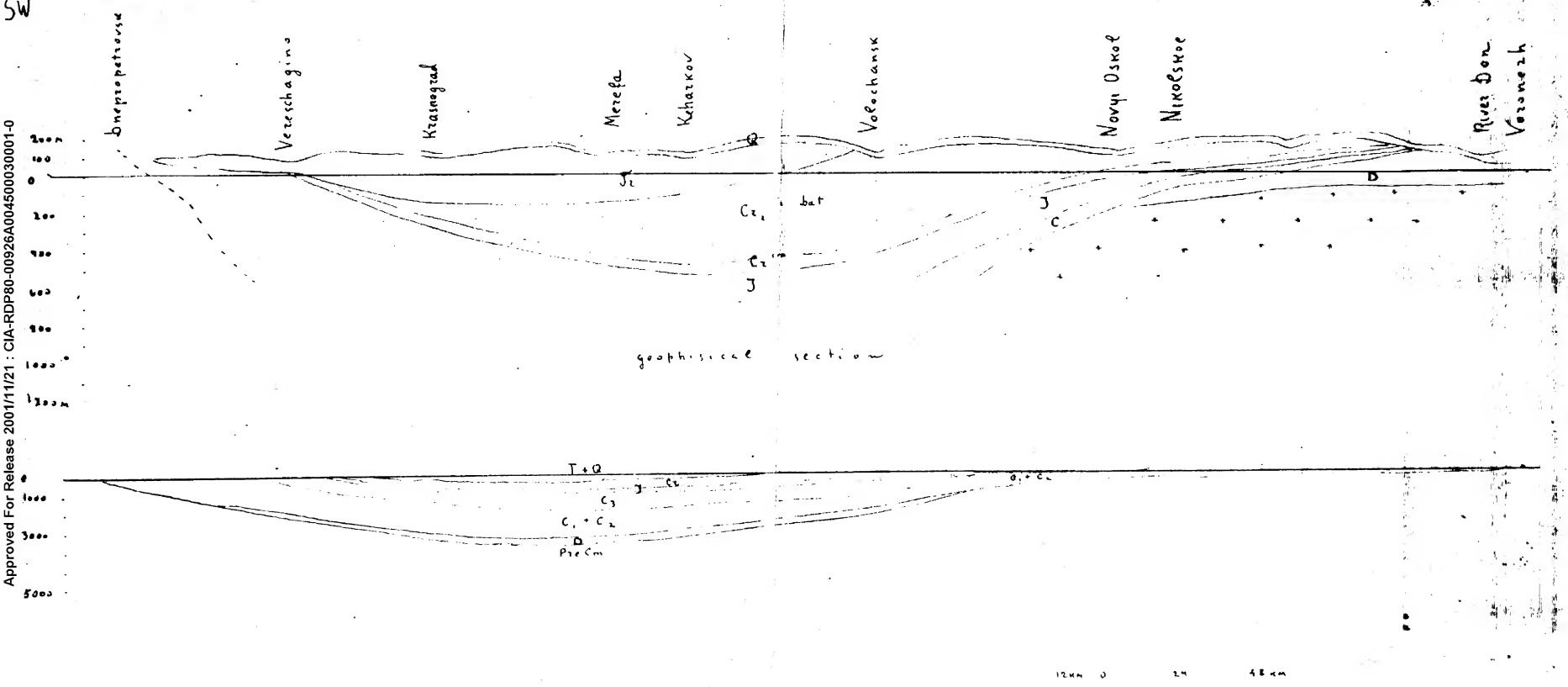
Section from Dneprpetrovsk to Vorozhesh

N 29

A A'

SW

NE



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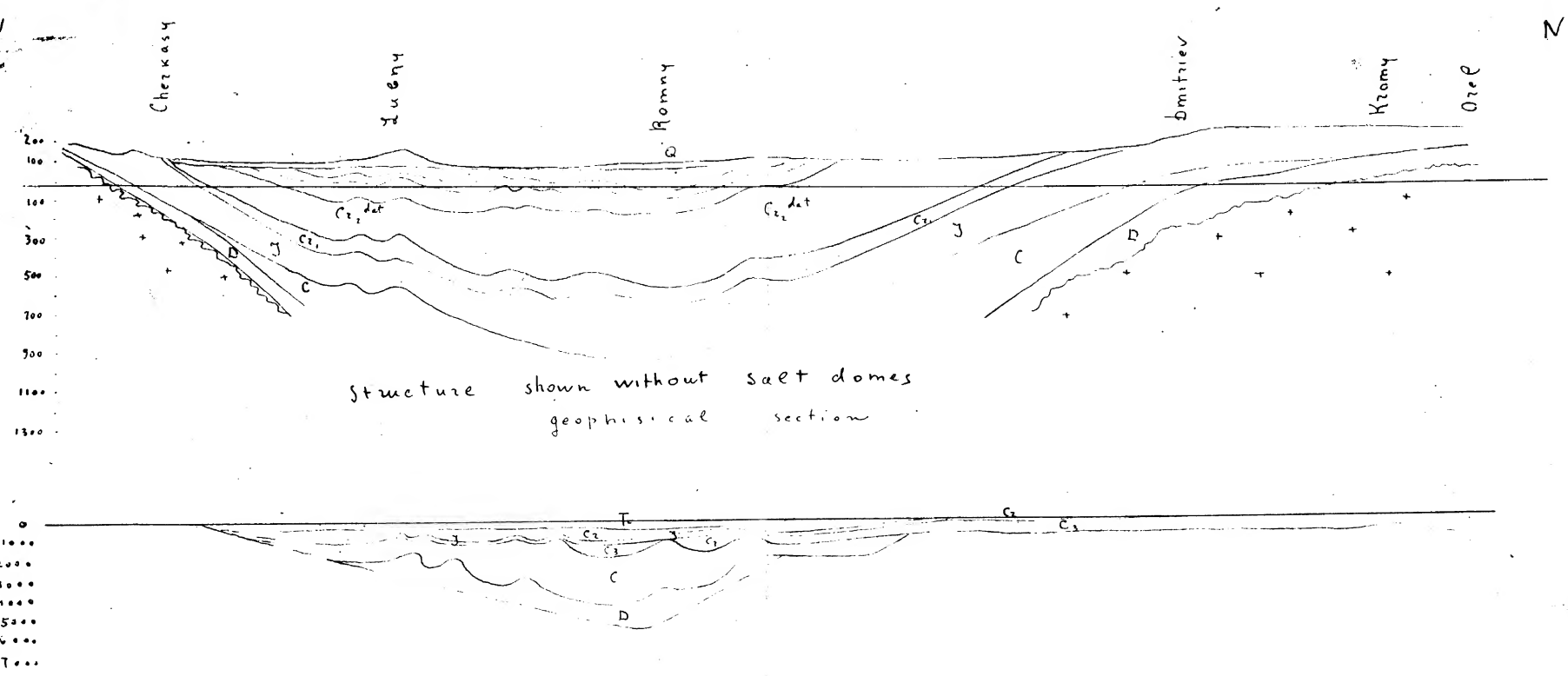
Ukrainian depression

section from Zvetnovo to Orel

B – B'

№ 30



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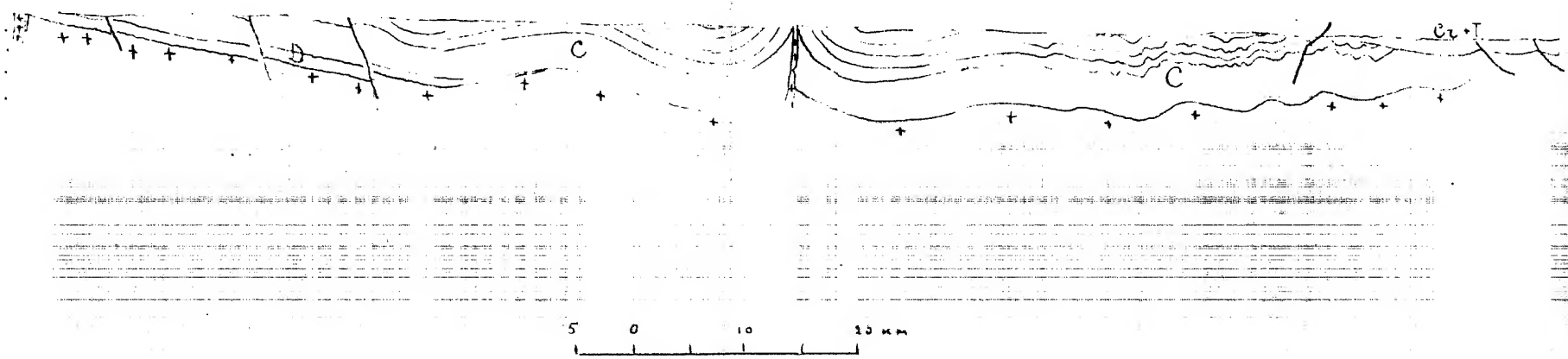
Donetz basin

N° 31

C C'



Vertical scale

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Ukrainian Depression

~~No 32~~ ~~N. 18~~ No. 32

OIL FIELDS OF THE UKRANIAN DEPRESSION

1 Romny
2 Dmitrievskaya
3 Isachki
4 Pozniaki
5 Glinsk
6 Lubny
7 Bogatchka - Rodionovka
8 Poltava
9 Yazina
10 Khemelevo
11 Akhtyrka
12 Lokhvitza
13 Romodan
14 Ostapye
15 Goltva
16 Nekhvoritza
17 Orelka
18 Lokhvitza Minimum
19 Akhtyrka East
20 Petrovshii
21 Borispol

Kiev
Chernigov
Romny
Kharkov
Poltava
Dnepropetrovsk
Bakhmut
Gutovaia
Voroneżt
Saratov
Stalingrad
Rostov
Ninolaev
Khenson
Odessa
Crimea
Sevastopol
KUBAN - BLACK SEA REGION
Kuban
Krasnodar
STAVROPOL REGION
Stavropol
Kuma
Caspian Sea
Tuapse
Black Sea
Great Caucasus
Terek
GROSNYI REGION
Grozny

main pipe line
Prospective structure
oil field
neighbouring oil region
..... Buried extensions of Donetz Basin

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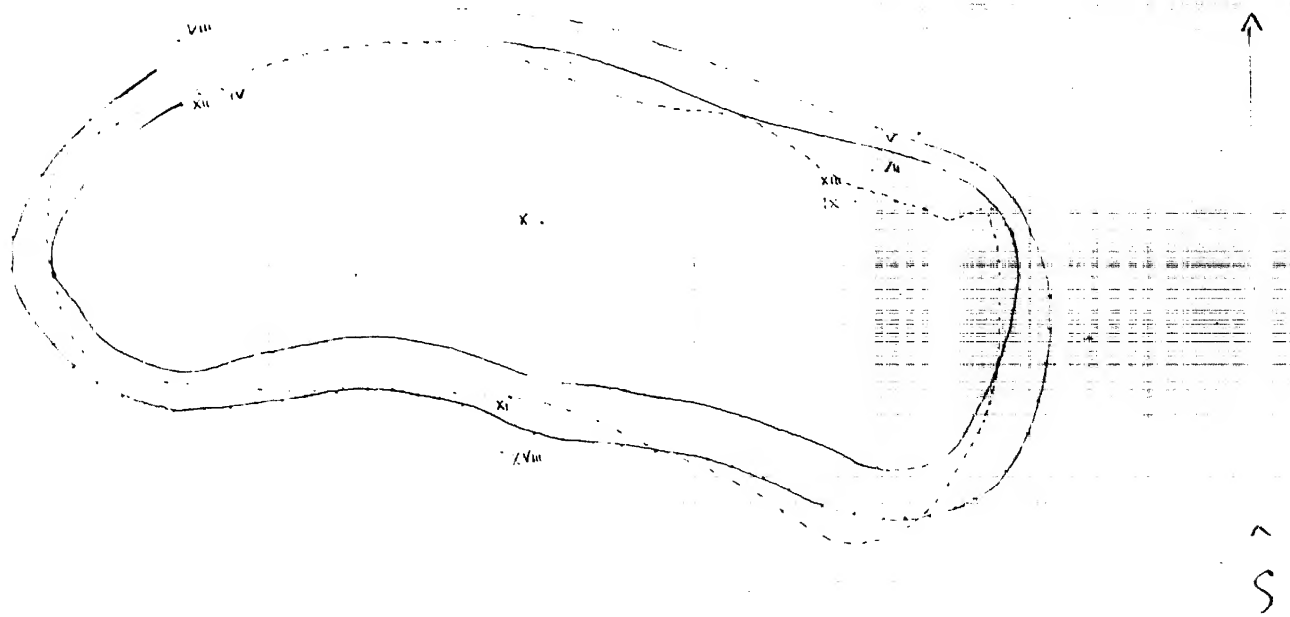
Romny

N° 33



Breccia by gravimetrical survey

of deep slop of dome by seism.

x rotary drillings

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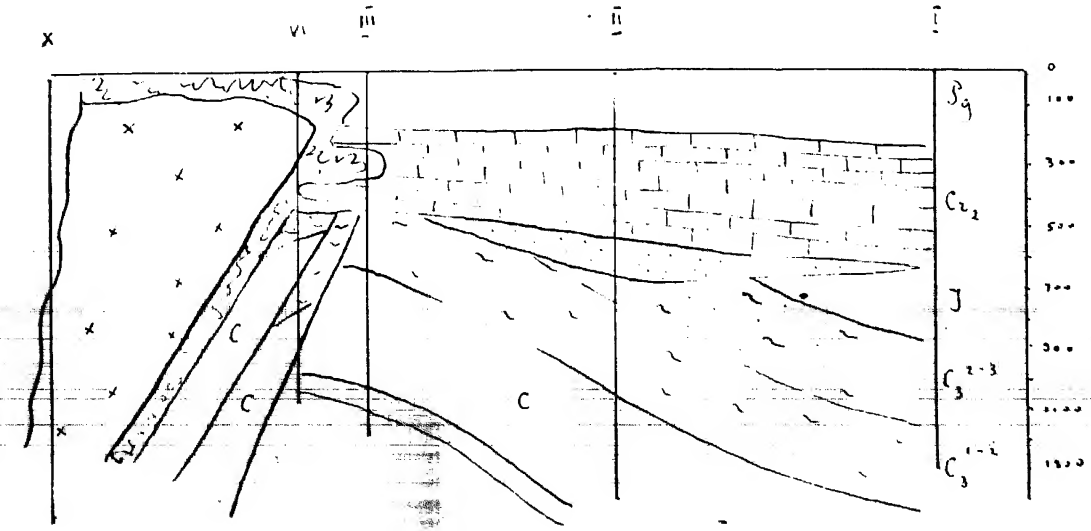
North flank of Romny salt dome

№ 34

S

N



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ILLEGIB

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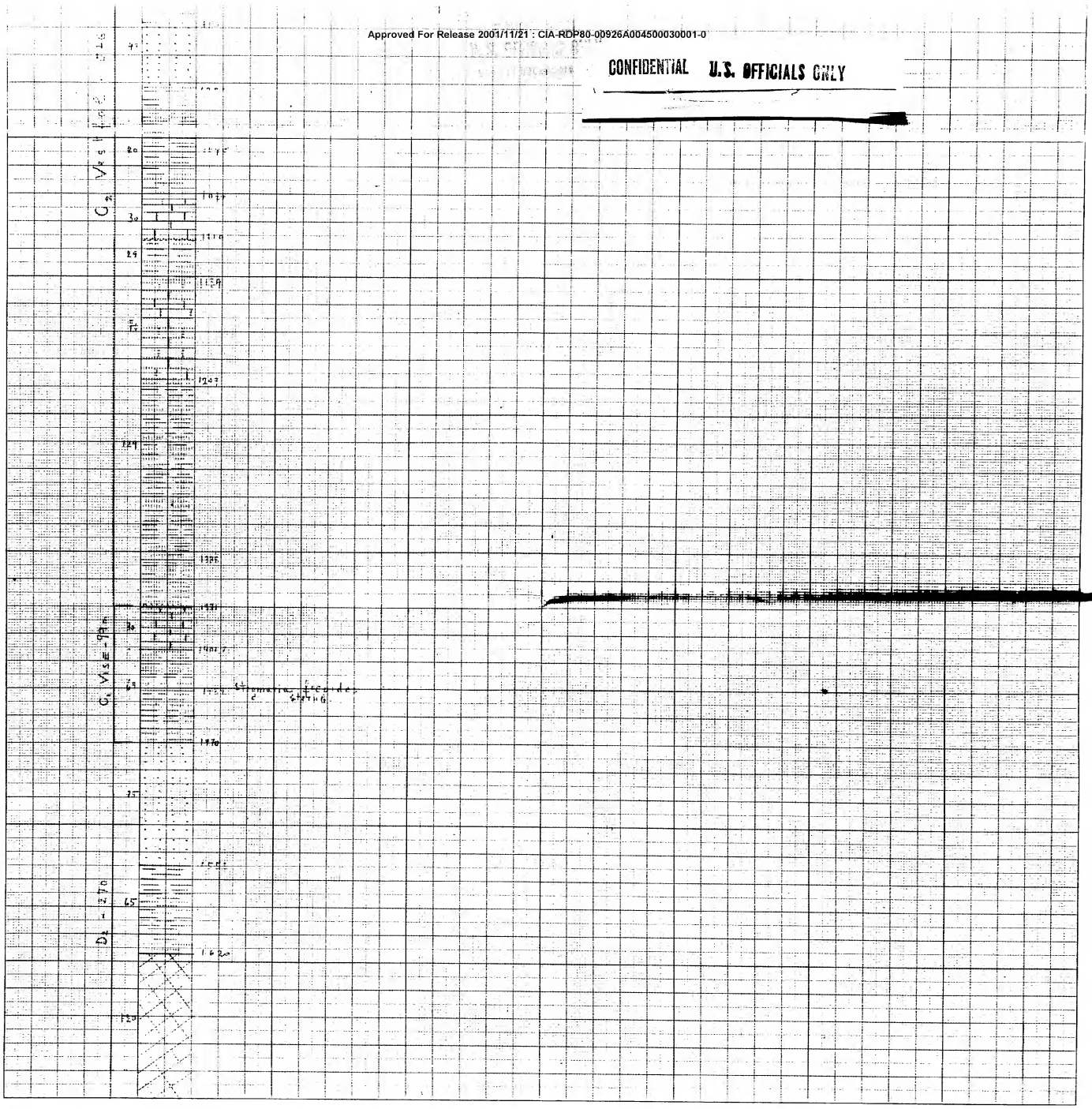

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25X1X

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25X1A

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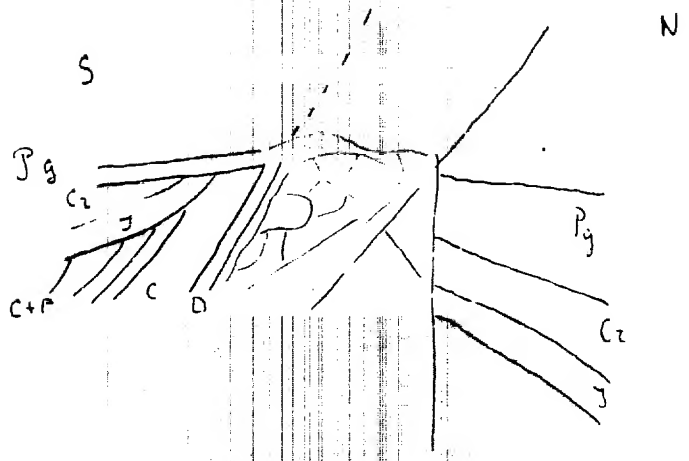
Isachki salt dome

N° 3



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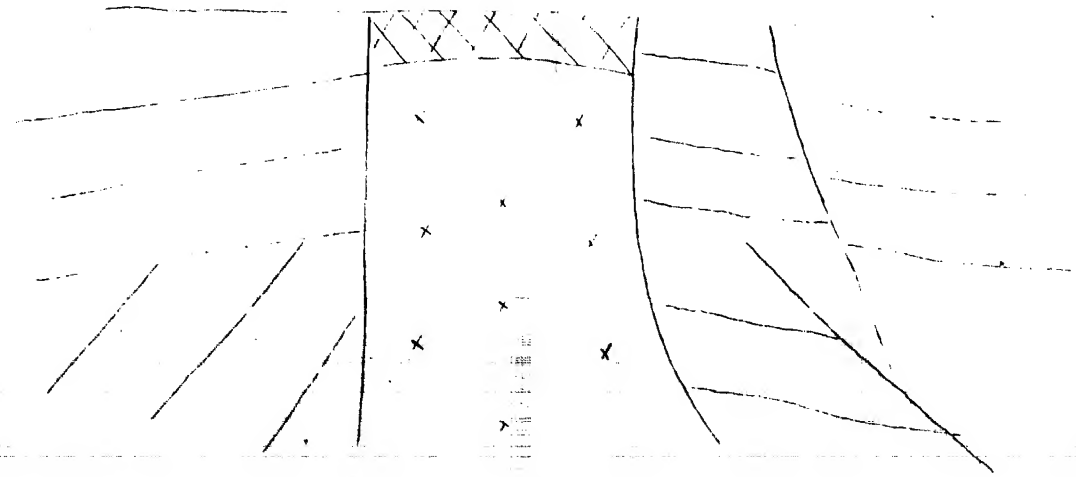
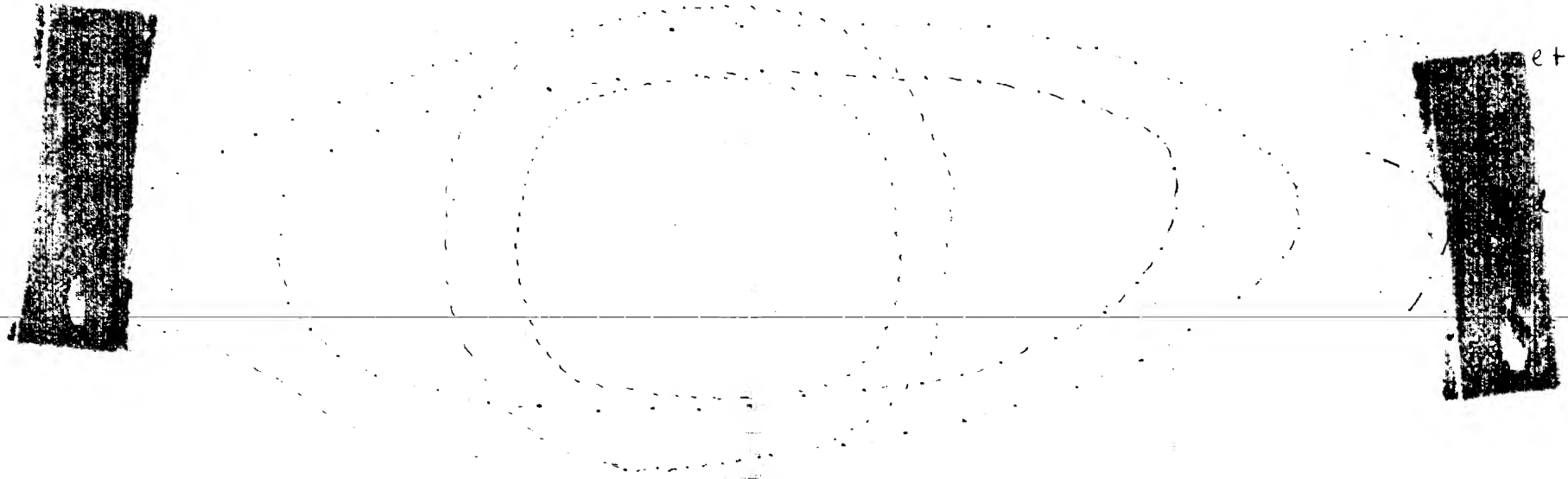
General type of Ukrainian salt domes.

Cross section



Plan



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different types of Ukrainian salt domes

Nº 40

Open dome

Depositional Breccia

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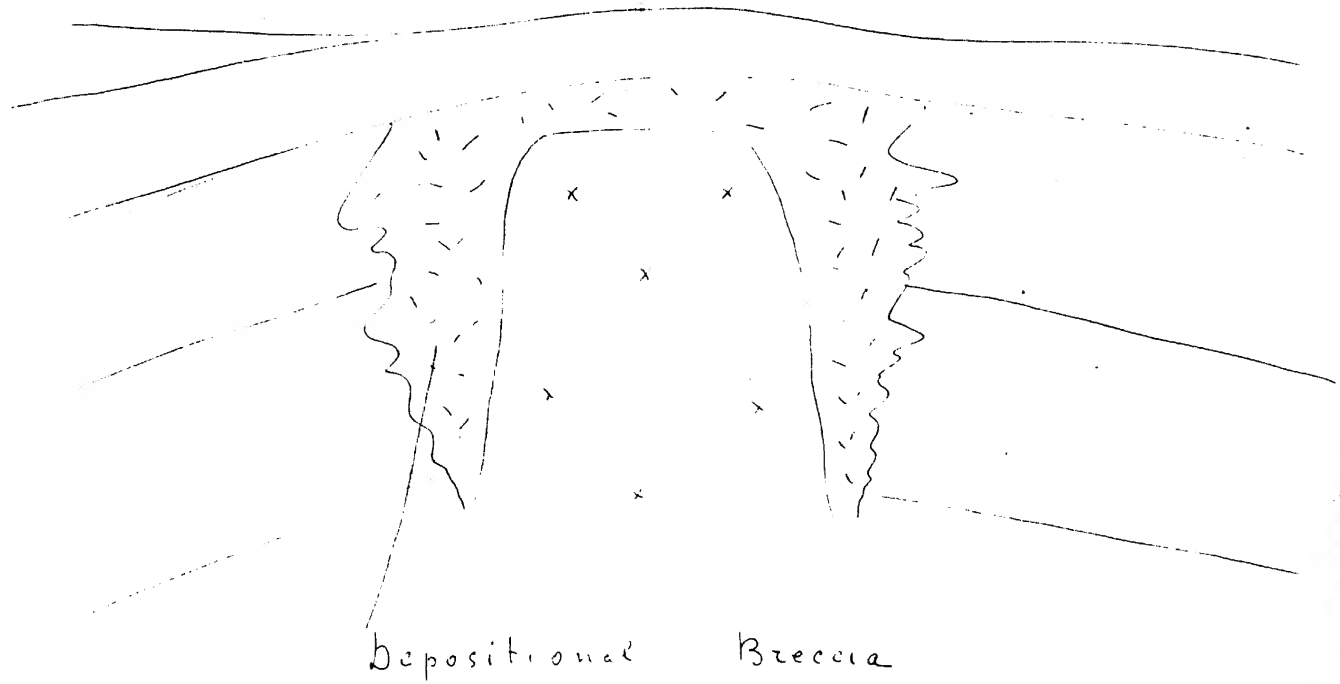
different types of Ukrainian salt domes

Closed dome

type Dmitrievsk.

N°41



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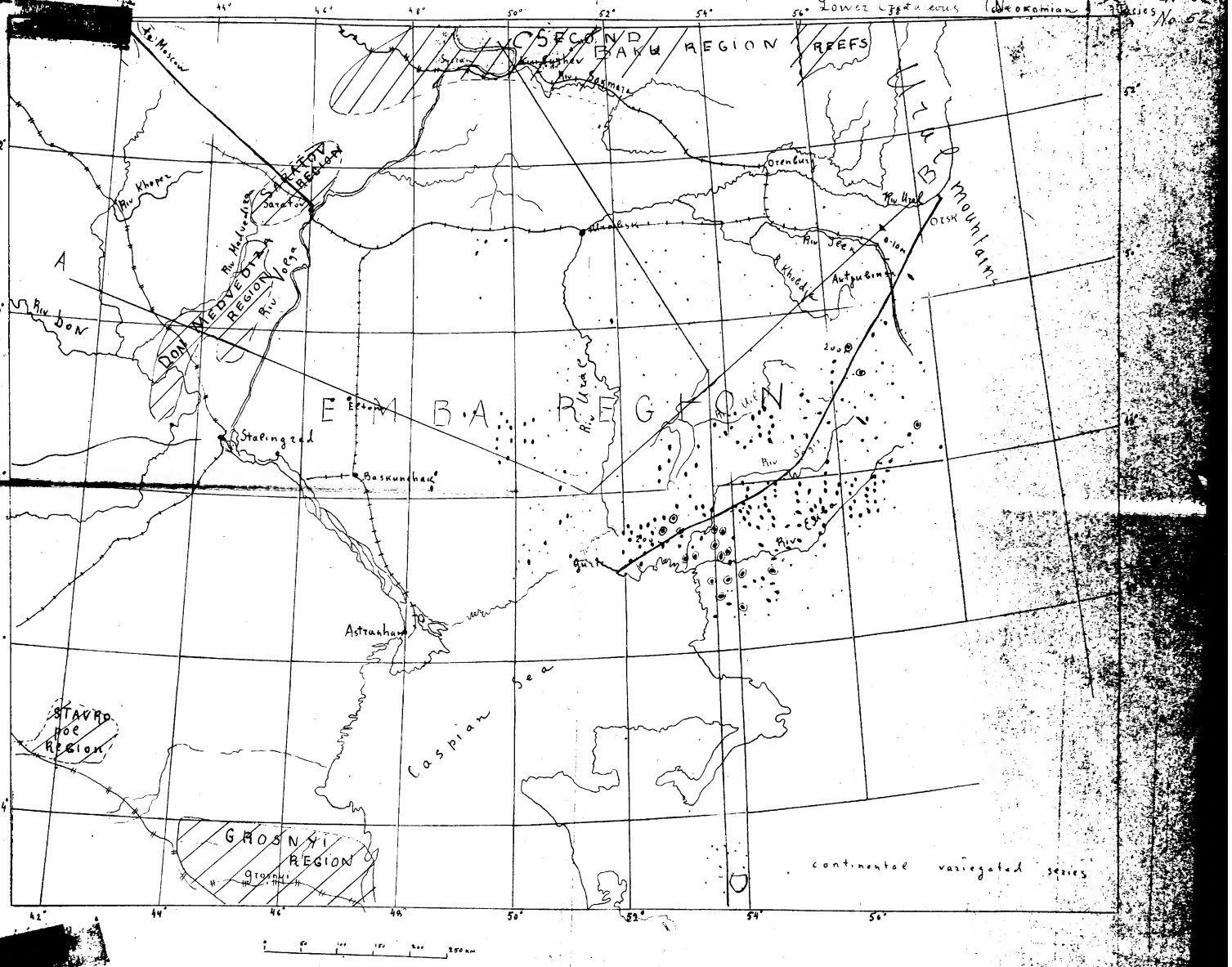
EMBA SALT DOME REGION

No. 52



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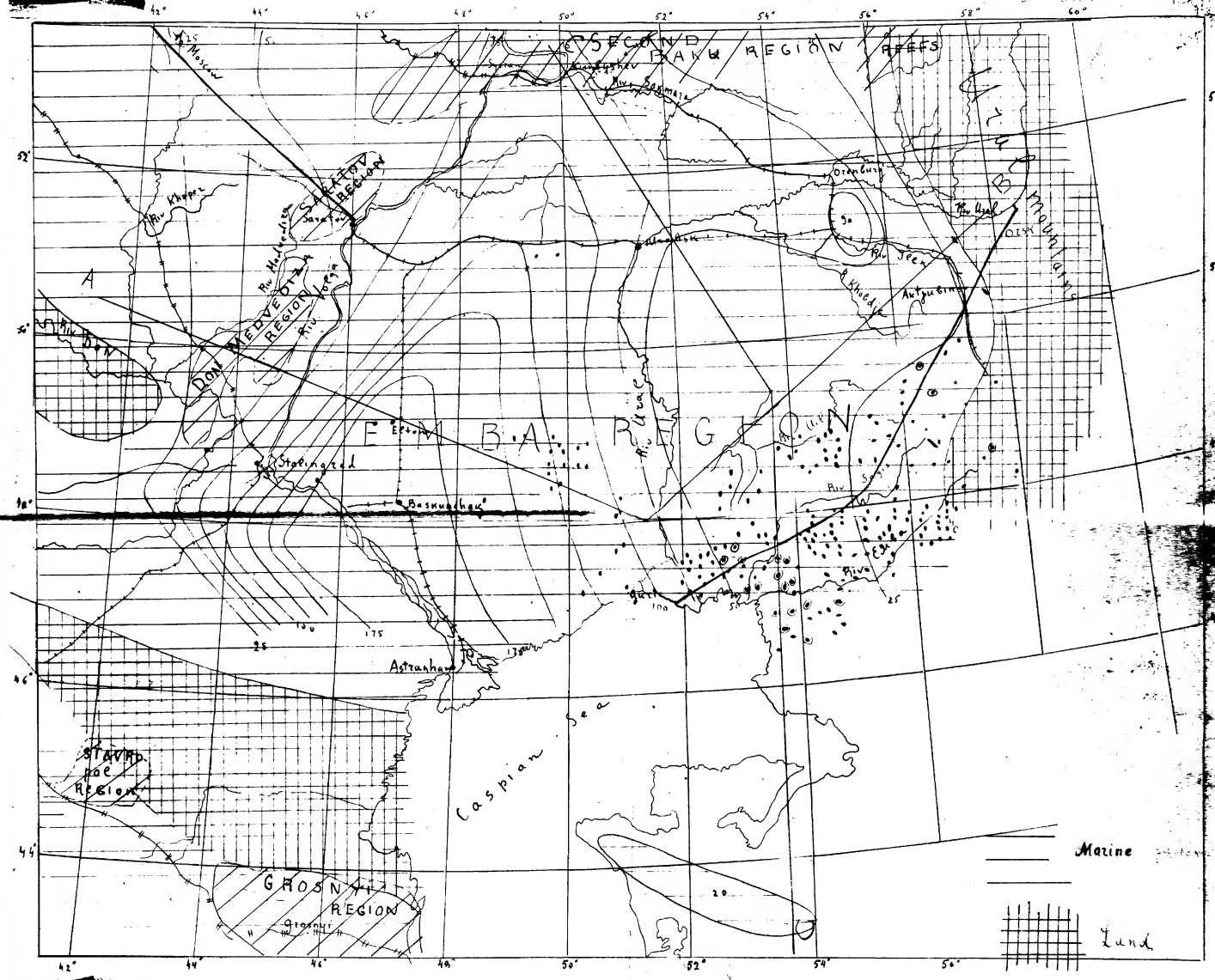
EMBA SALT DOME REGION

~~No 42~~
No 51



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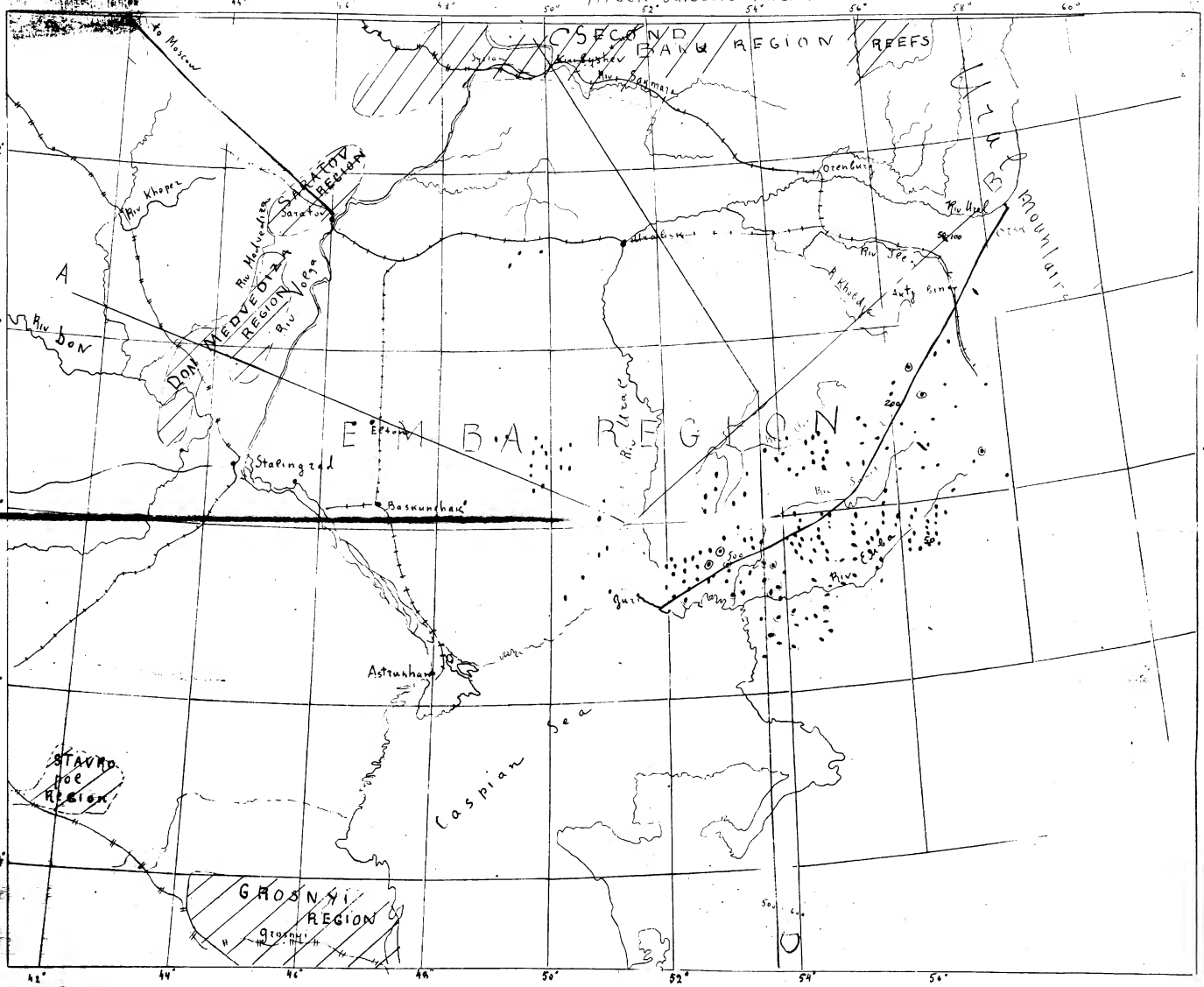
EMBA SALT DOME REGION

Middle Jurassic thickness

~~No 49~~ No 50



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250 km

• Salt domes

Salt domes – oil fields

neighboring oil regions

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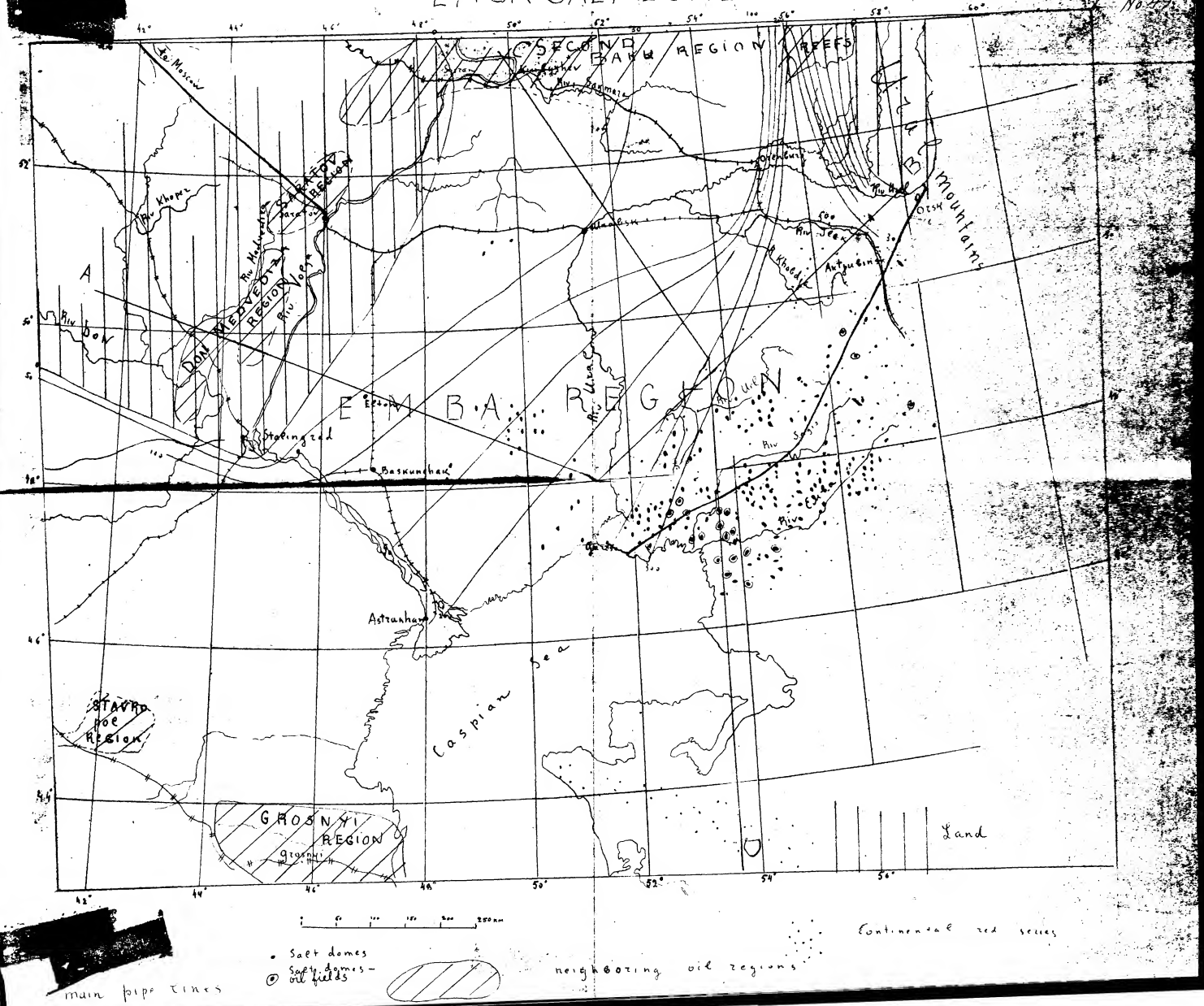
EMBA SALT DOME REGION

Upper Permian - (Sphinfer - Kazan) Stepanek

No. 19



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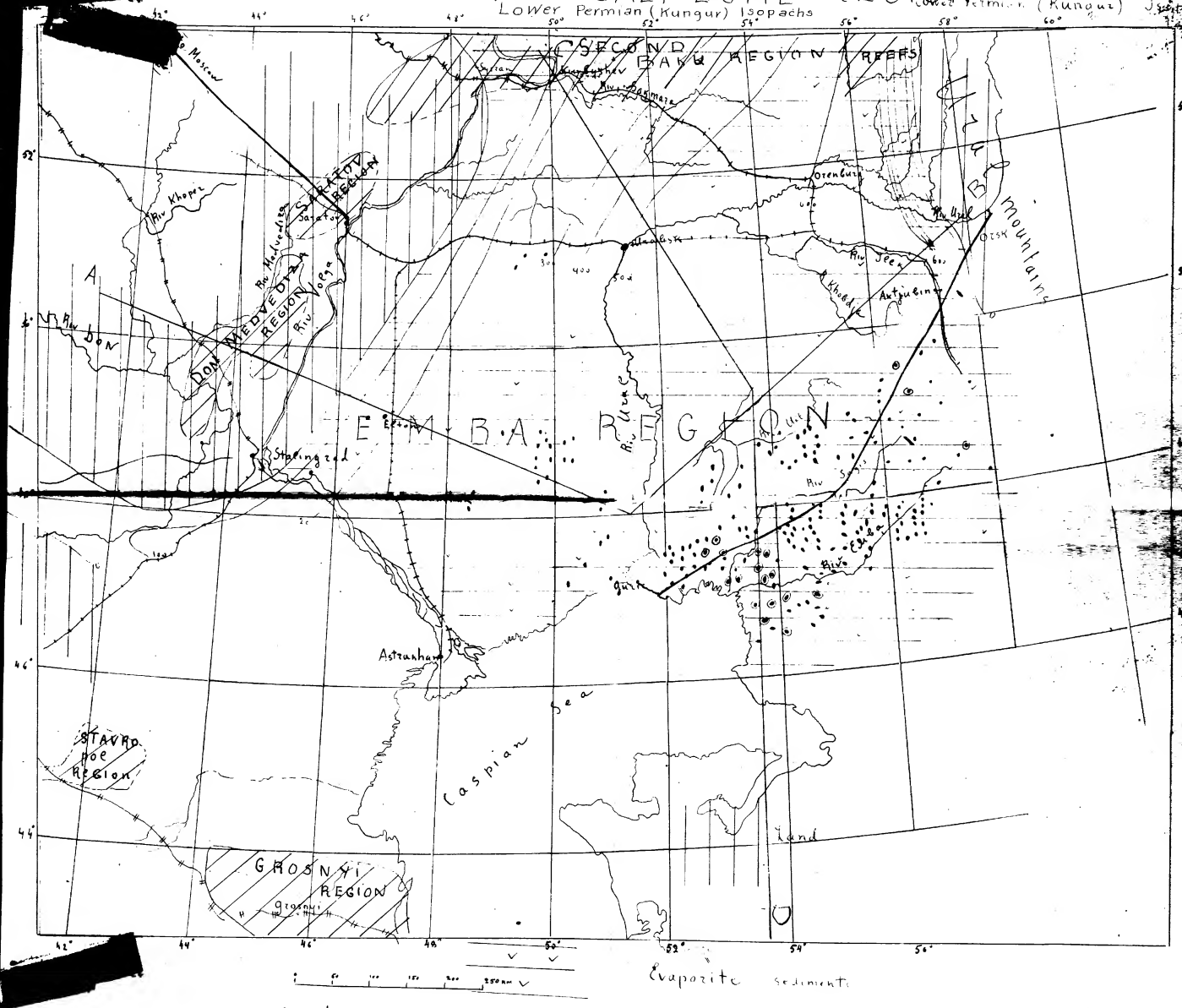
EMBA SALT DOME REGION

Lower Permian (Kungur) Isopachs

No. 48



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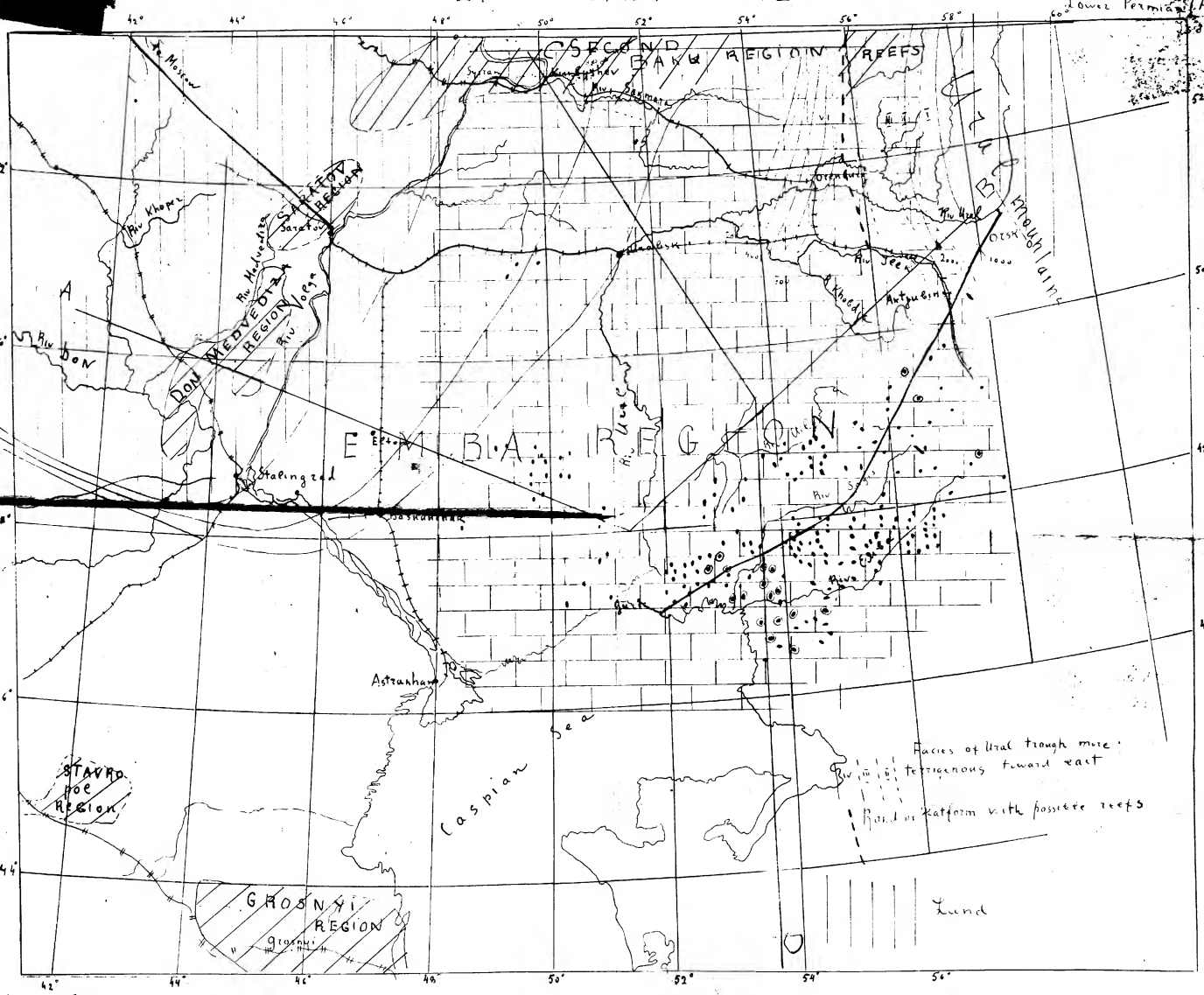
EMBA SALT DOME REGION

No. 47 ~~N44-47~~



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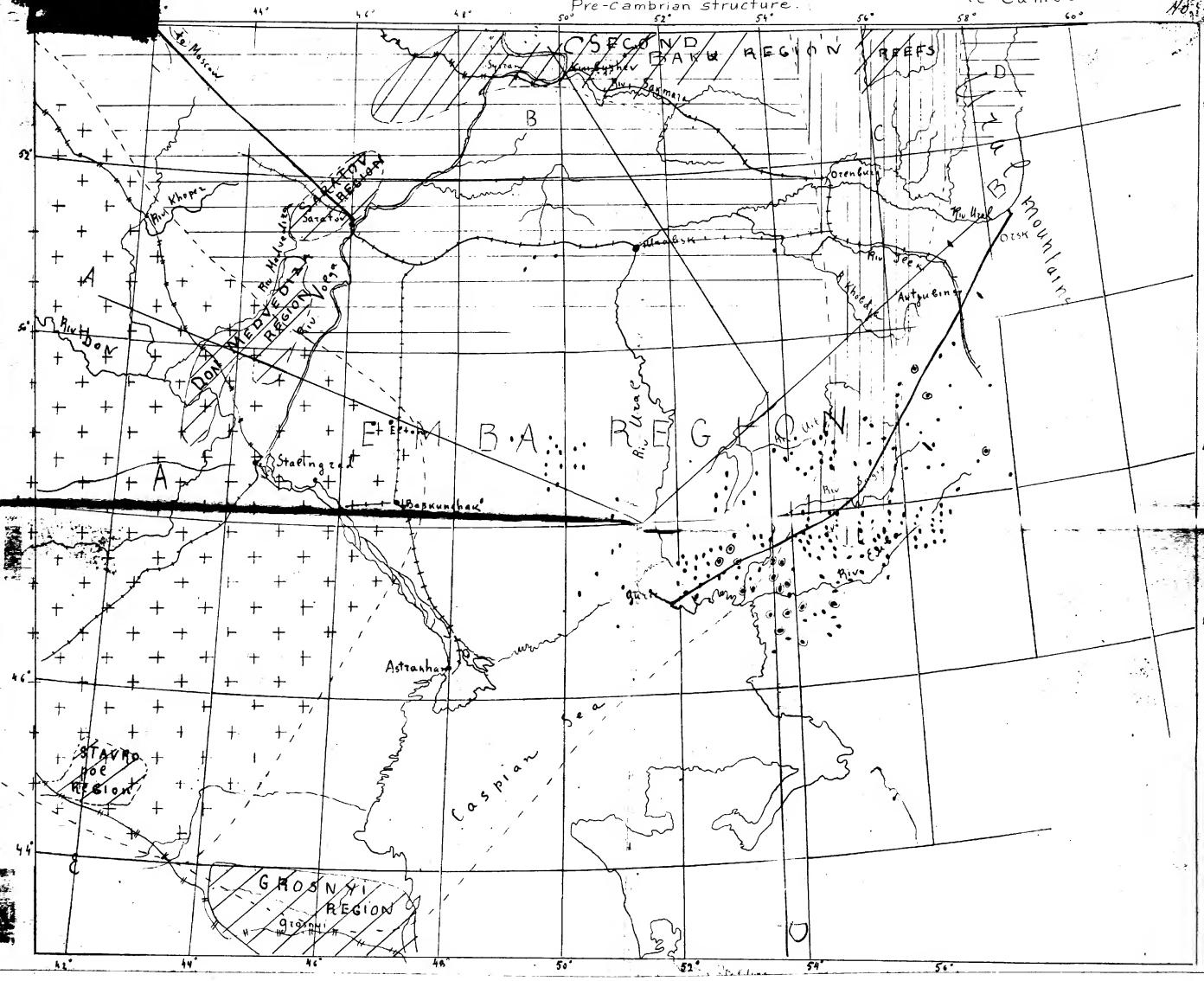
EMBA SALT DOME REGION

Pre-Cambrian structure

Cumerian Structure ~~No 43~~ No 42



Neighboring Oil Regions

0 50 100 150 200 250 Km

Main Pipe Line

• Salt Domes

⊙ Salt Domes - Oil fields

A. Pre-Cambrian (Pre Karelian) Massif covered by Sediments.

B Area of Karelian folding covered by sediments.

C Outer Zone Area of Rifei Latter Proterozoic folding

D - Inner Zone of Rifei (Latter Proterozoic) folding

E - Caucasian portion of Rifei folding zone.

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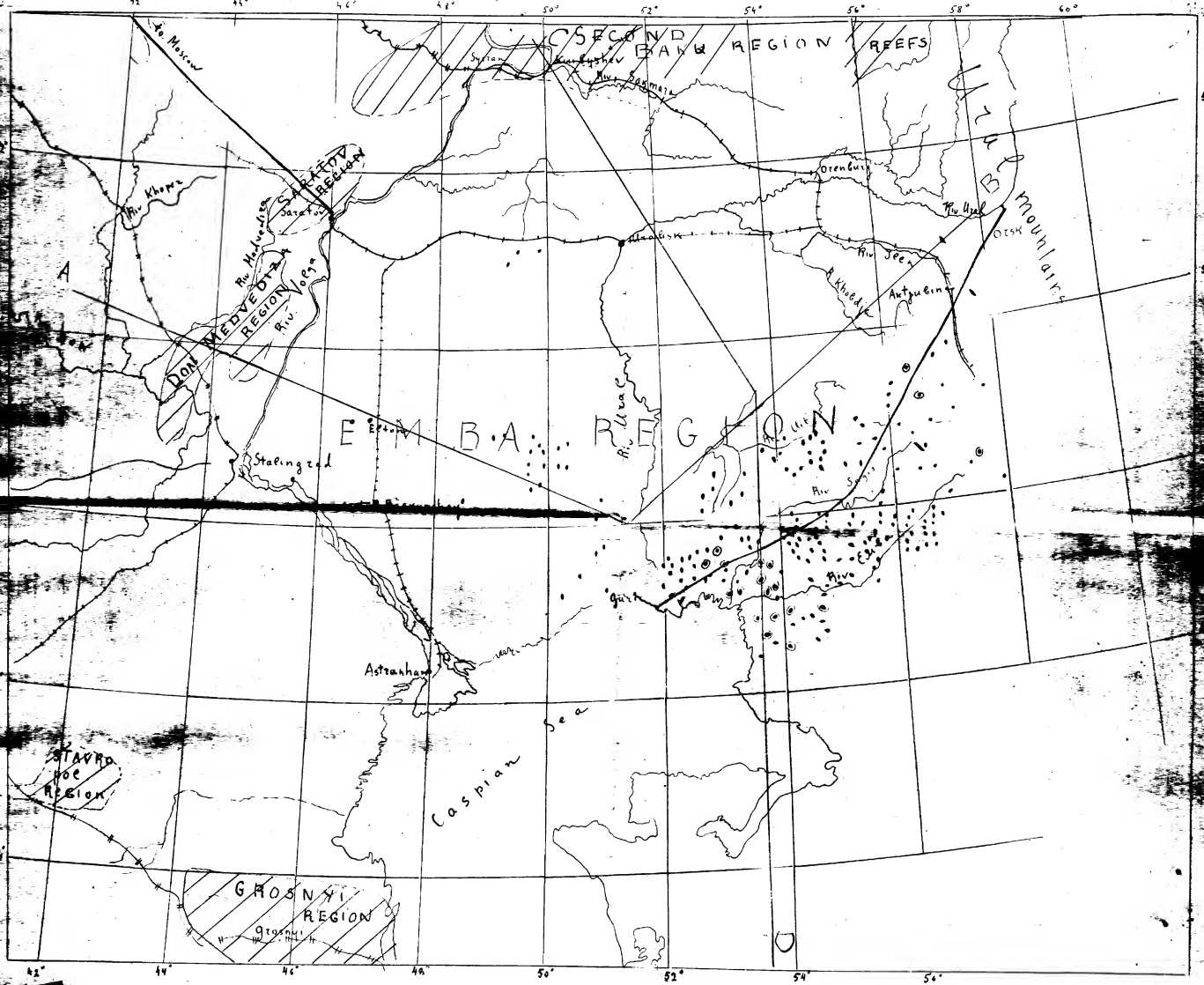
EMBA SALT DOME REGION

No 42



• Salt domes

⊙ Salt domes - oil fields

Main pipe lines

Neighboring oil regions

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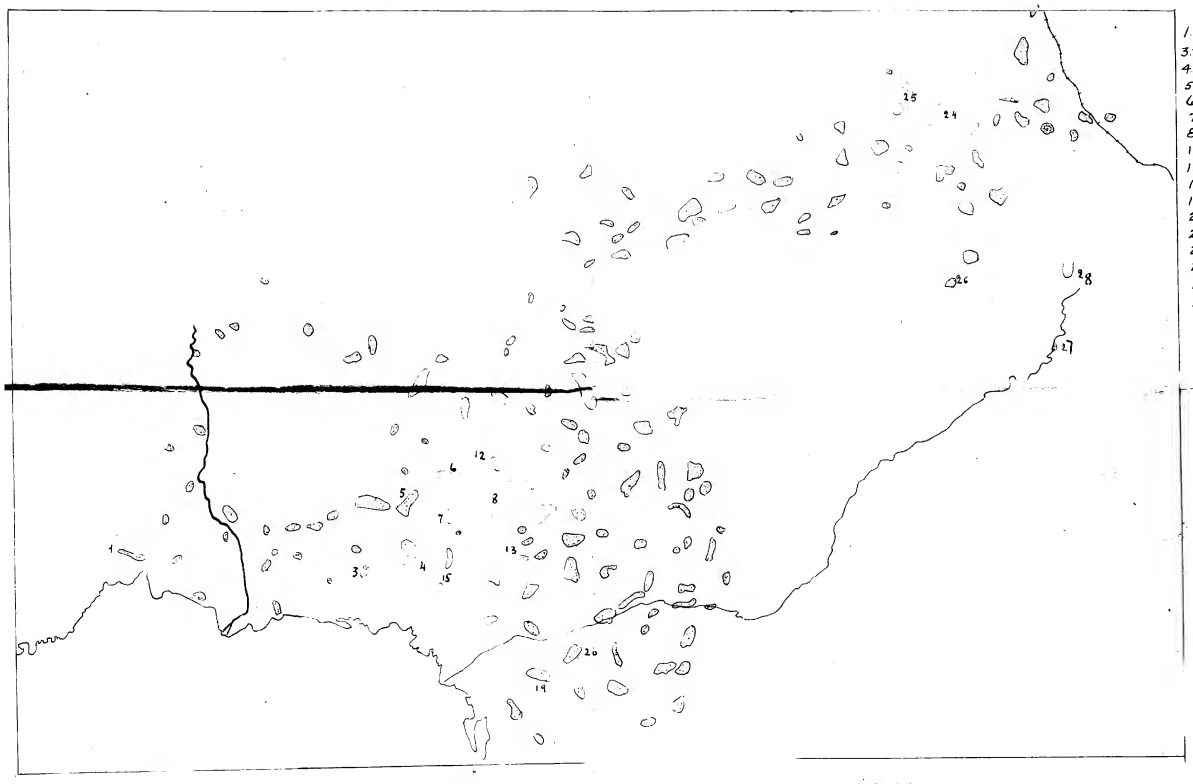
N 54

EMBA SALT DOME REGION



Scale

Minimum [illegible] zone [illegible]

Minimum [illegible] to production [illegible]

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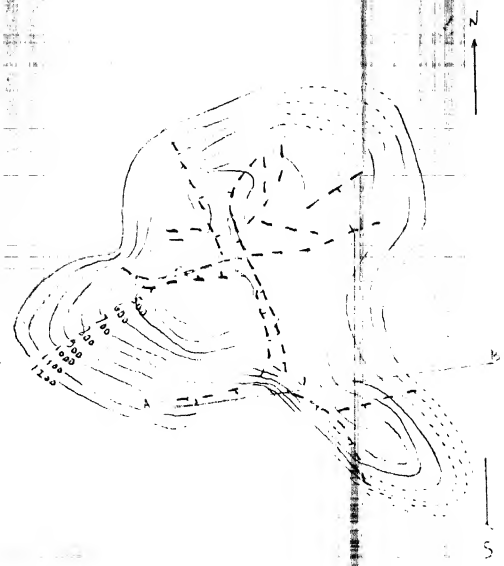
Dossor

Representative oil Fields N: 18

Emba Region.



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Makat

N° 58a

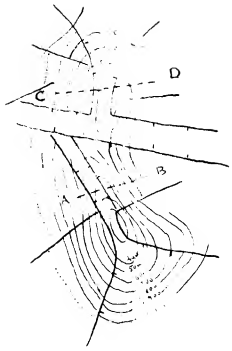
contur line of the salt surface

contur lines of the uperift in bede below salt series (in Artinsk)

presense of structure below salt series

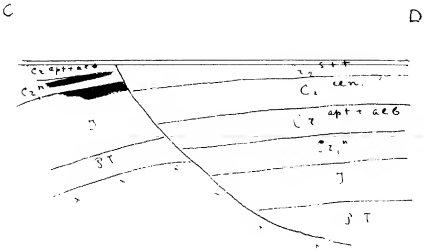
Barichunas

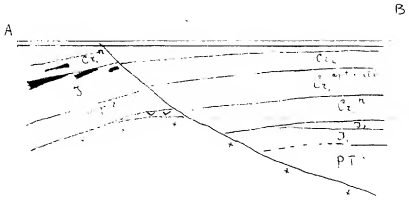
No. 59



Surface of salt

—— faults in deposits on top of dome





oil

v v caprock

x x salt

Emba region Jentjak Sor oil field

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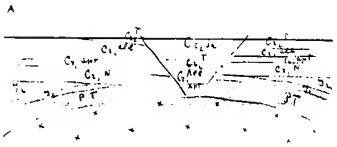
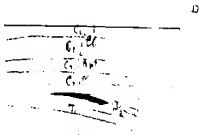
N° 60





South Koshkar

oil sands

water sand.

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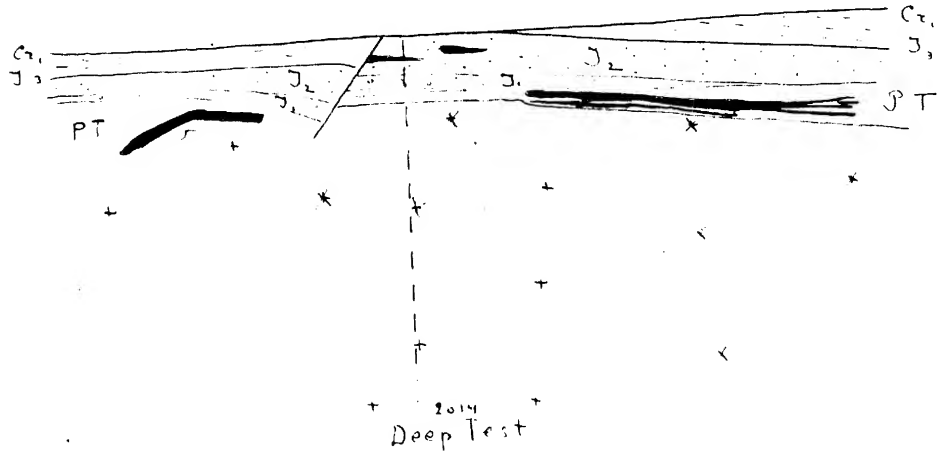
Shubarkuduk

№ 61



200 0 400 m

oil

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Dzinski salt dome

№ 62

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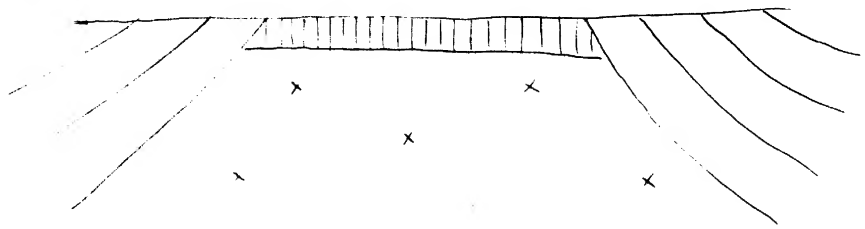
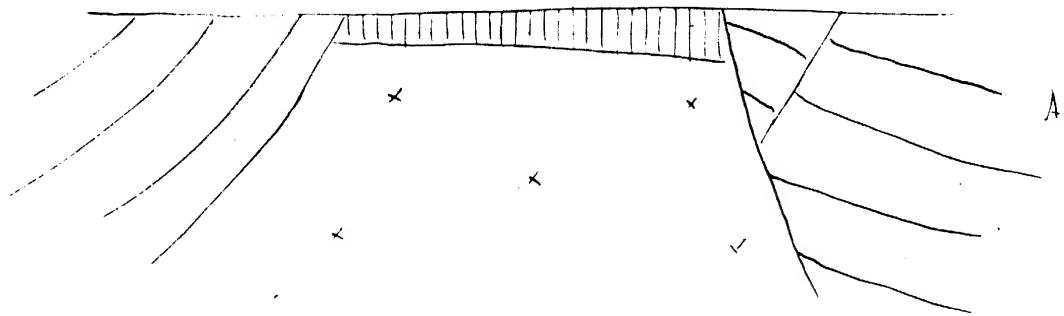
Salt domes

type recent abrasion

N°63



Before



After last stage of formation

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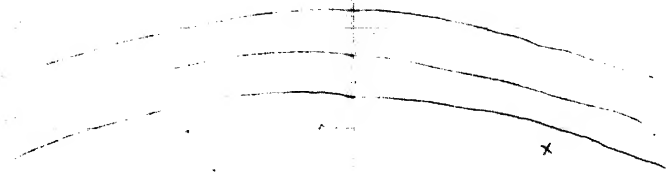
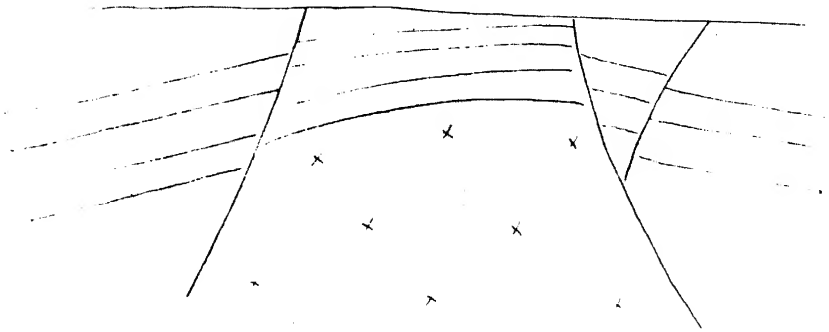
Sae: [illegible]

type without abrasion
(bossor, Makat, Shubarkudur)

№ 64



Before



after last step

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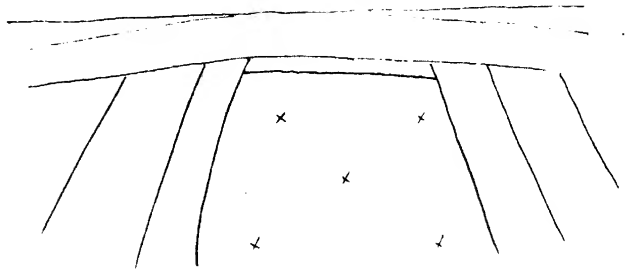
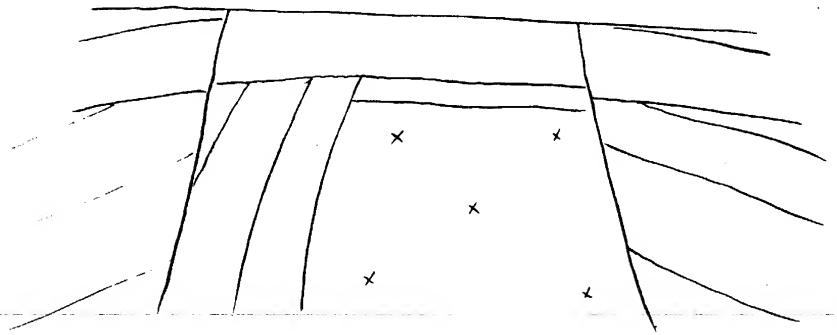
Salt domes

type transgressive cover

(Iskine)



Before



After last stage of formation

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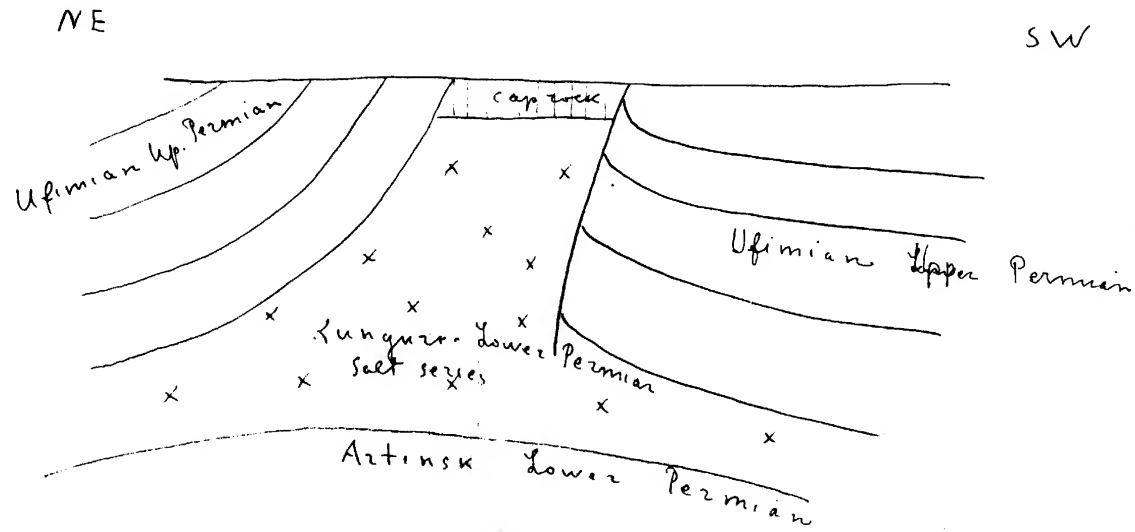
Salt anticlines
type Dzhusa
in South Ural trough

N 66



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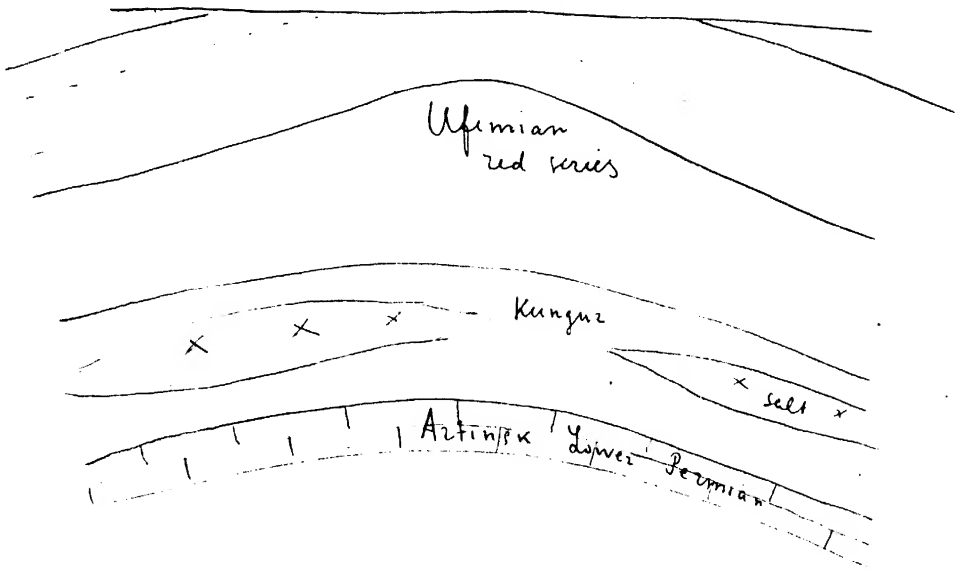
Salt anticlines
type Aktubinsk

N67



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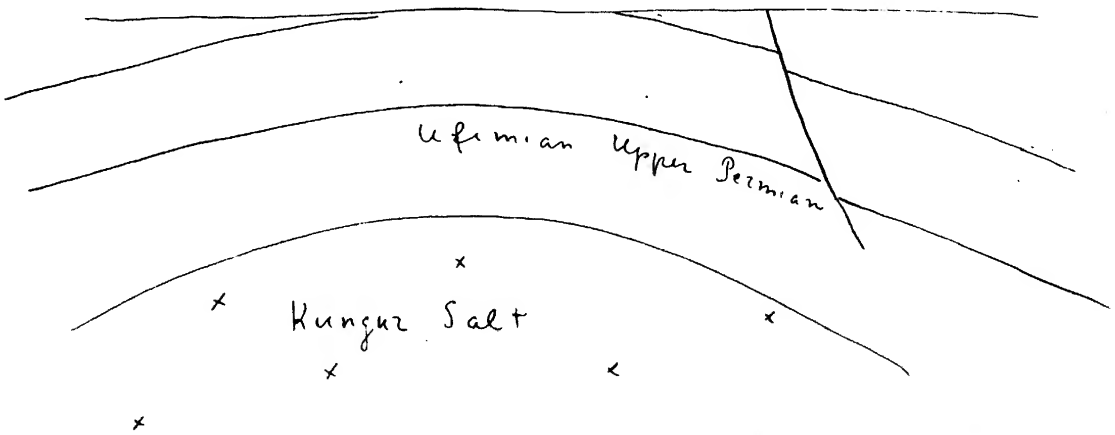
Salt anticlines

type Krasnoyarsk

N 68



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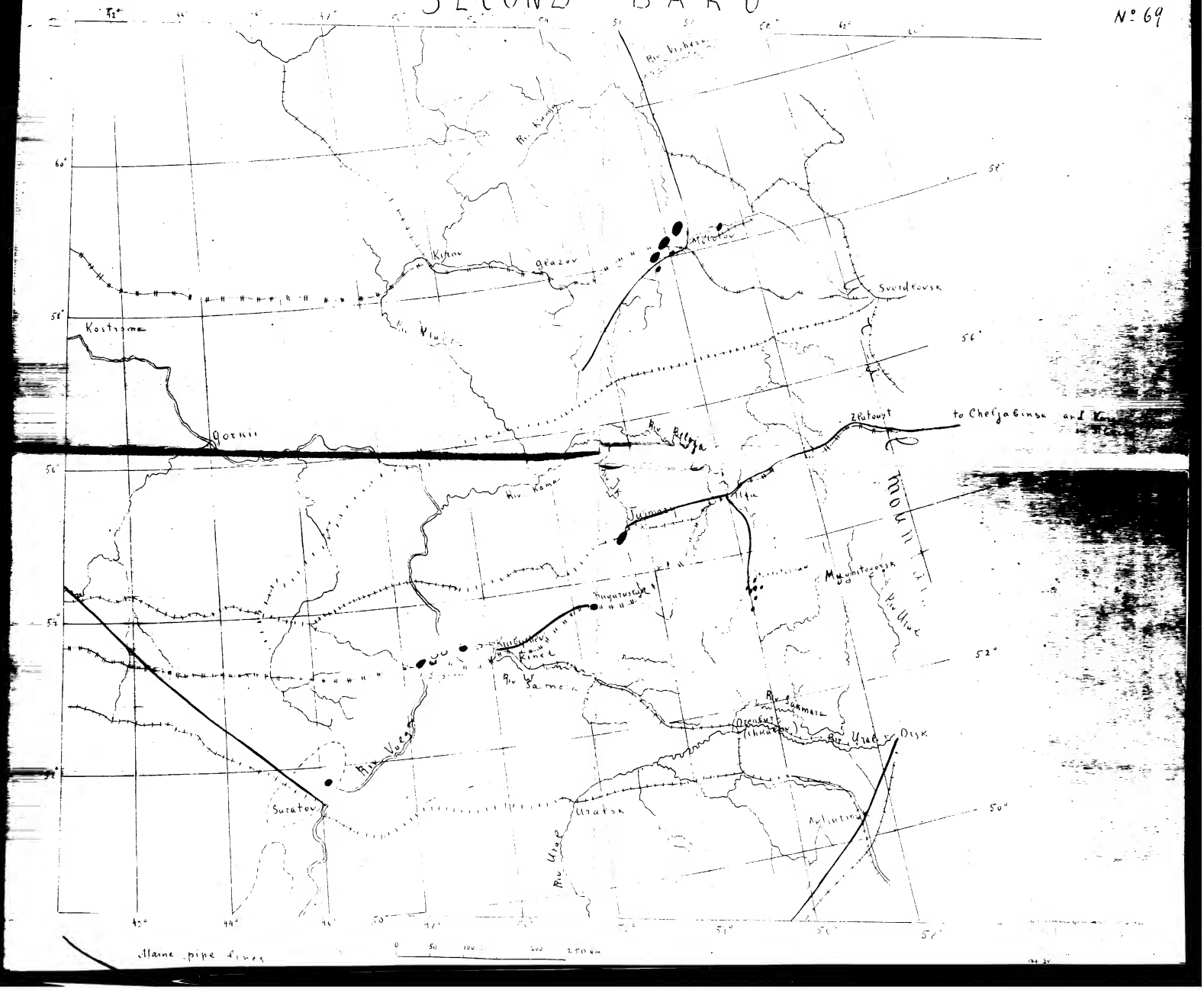
SECOND BAKU

N° 69



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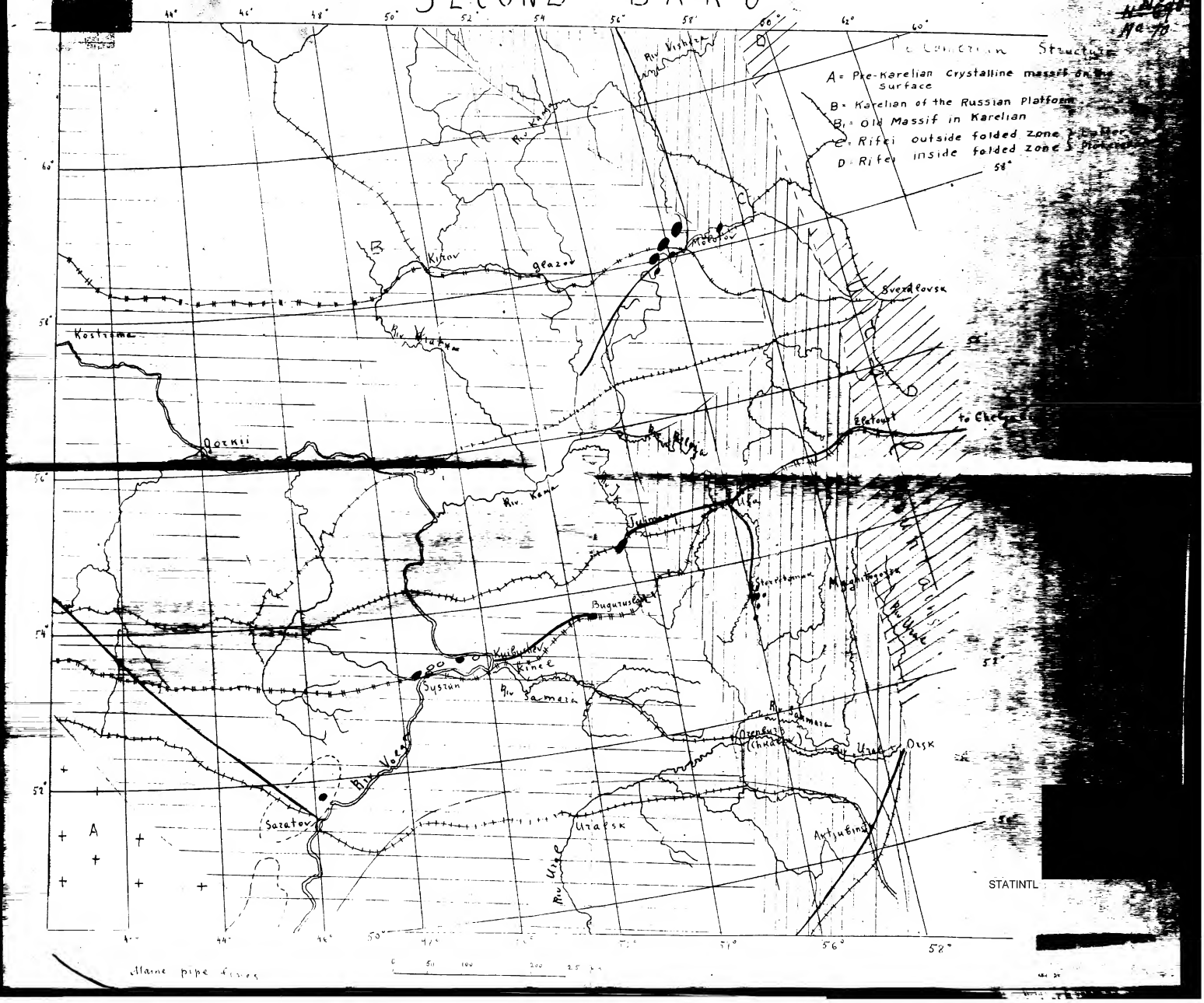
[redacted]

SECOND BAKU

~~№ 69~~
№ 70



Pre-Cambrian Structure

A = Pre-Karelian Crystalline massif on the surface
B = Karelian of the Russian Platform
B_1 = Old Massif in Karelian
C = Rifei outside folded zone } Latter
D = Rifei inside folded zone } Proterozoic

Maine pipe lines

[redacted]

STATINTL

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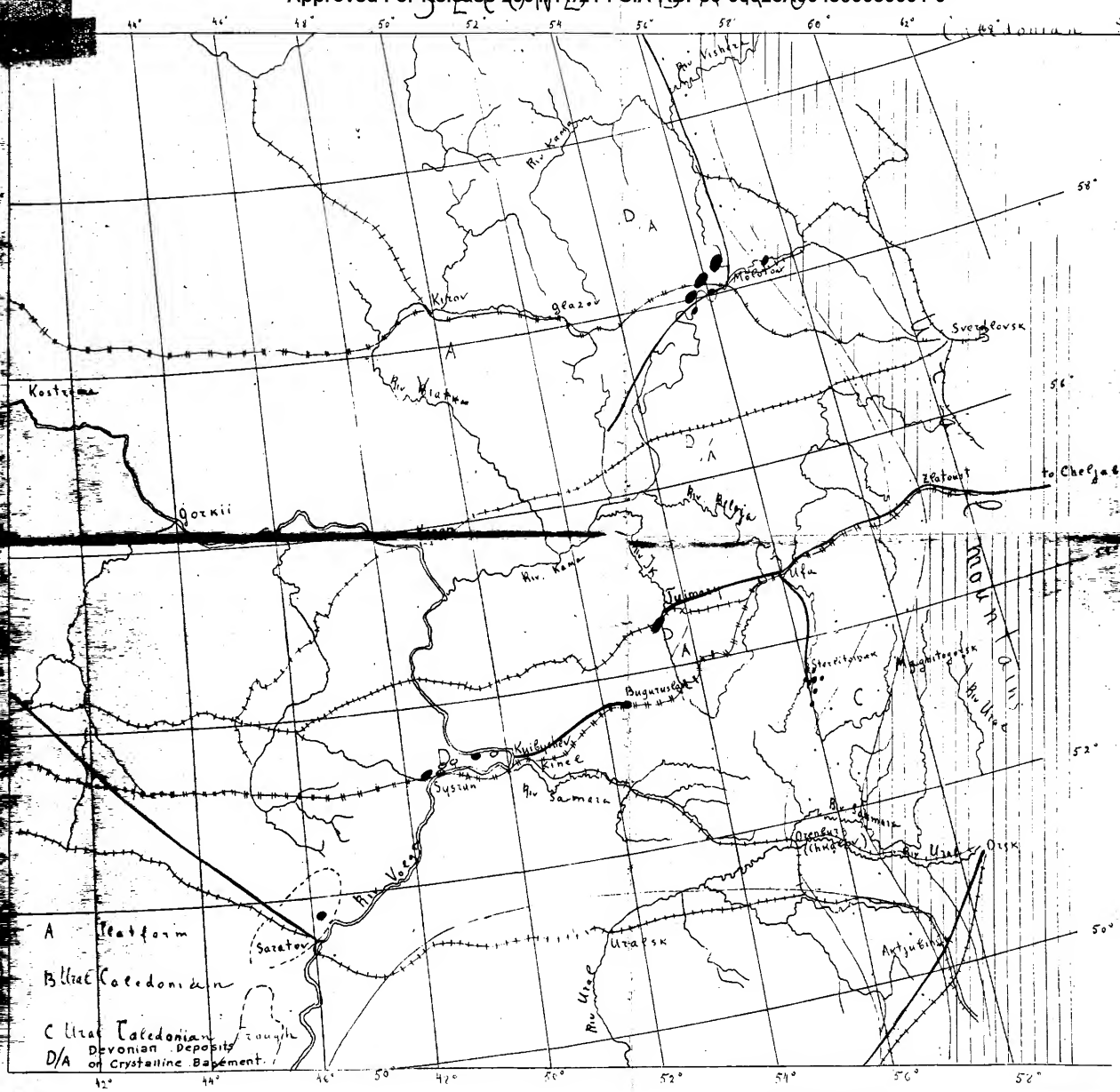
SECRET

No 71 ~~No 7~~ ~~No 69~~



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ILLEGIB

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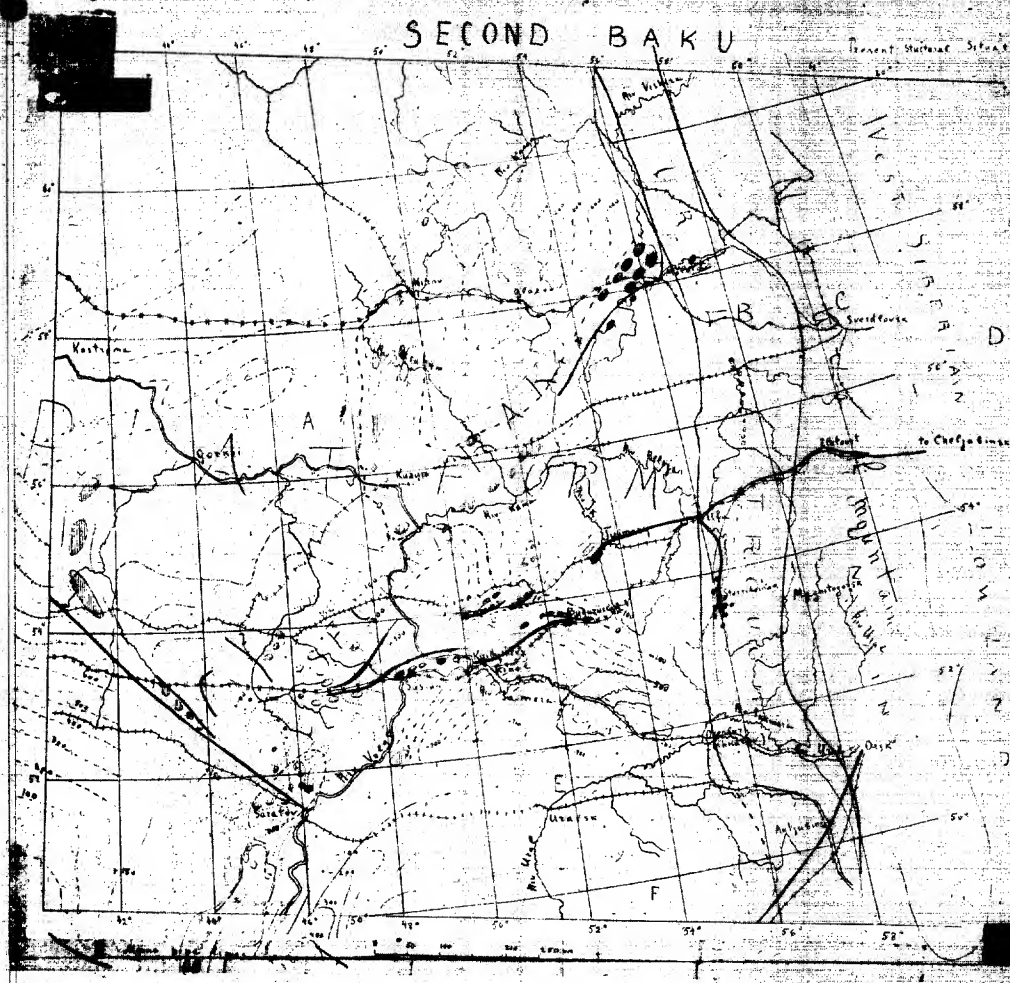
1/21 : CIA-RDP80-00926A00450003000D1-0

[redacted]

SECOND BAKU



[redacted]

A The Ural part of Mangyshlak Platform

B Hercinian Urals trough

C Hercinian Urals mountains

D Siberian Low Land

Caspian Depression { E Trans-Volga
F Khvalynsk

[redacted]

[redacted]

[redacted]

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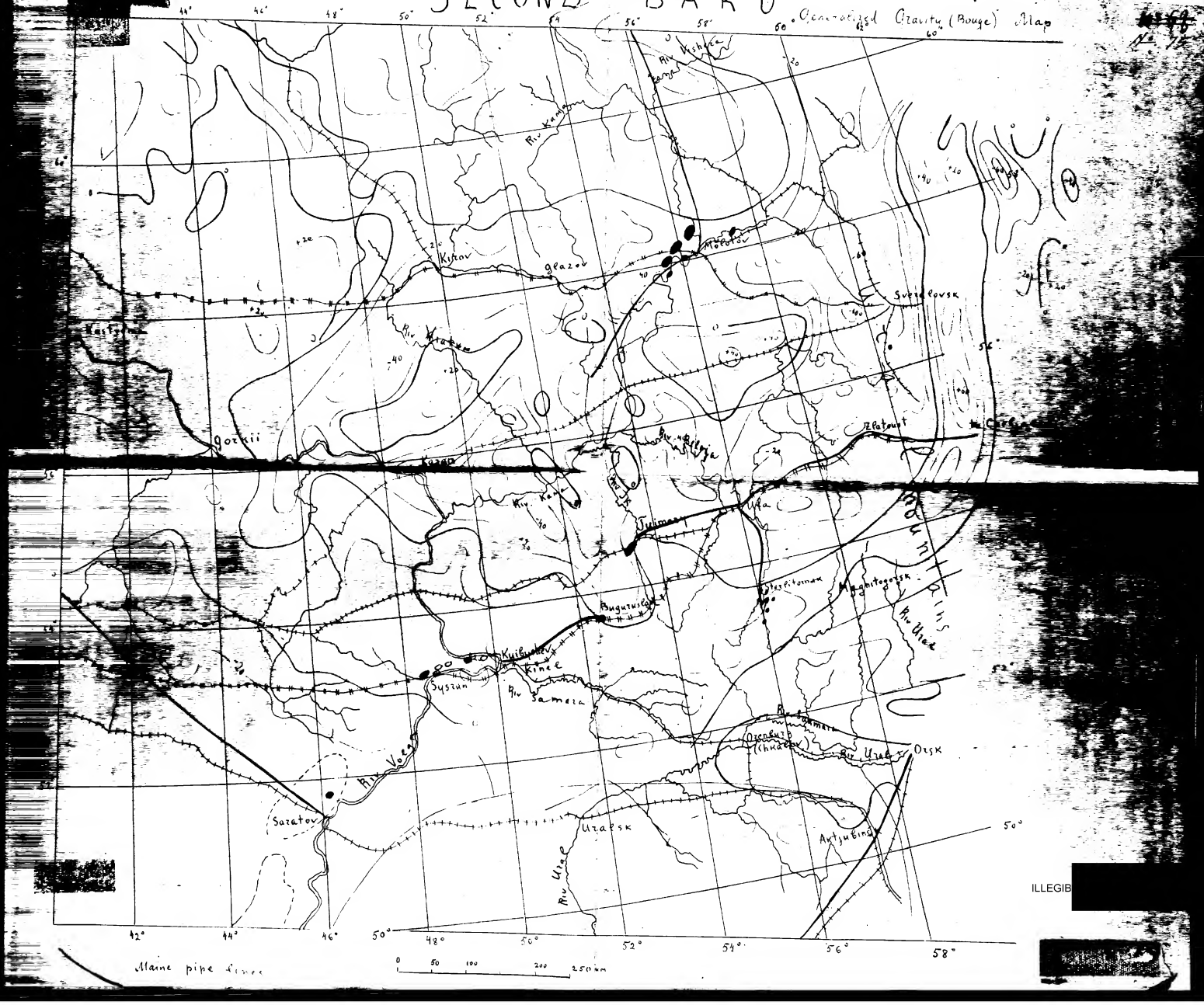
SECOND BAKU

Generalized Gravity (Bouge) Map



ILLEGIB

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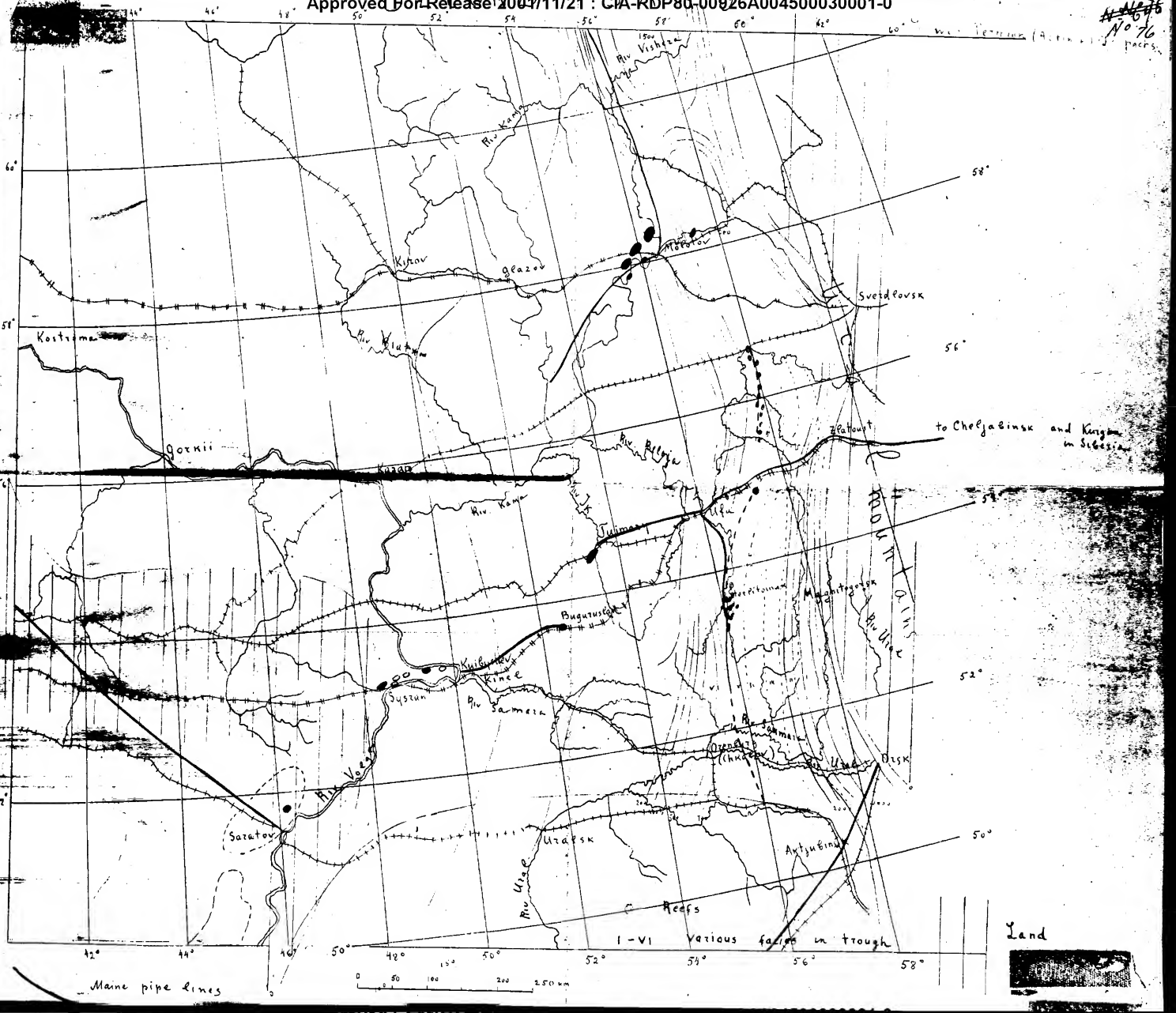
SECOND BACK

[redacted]

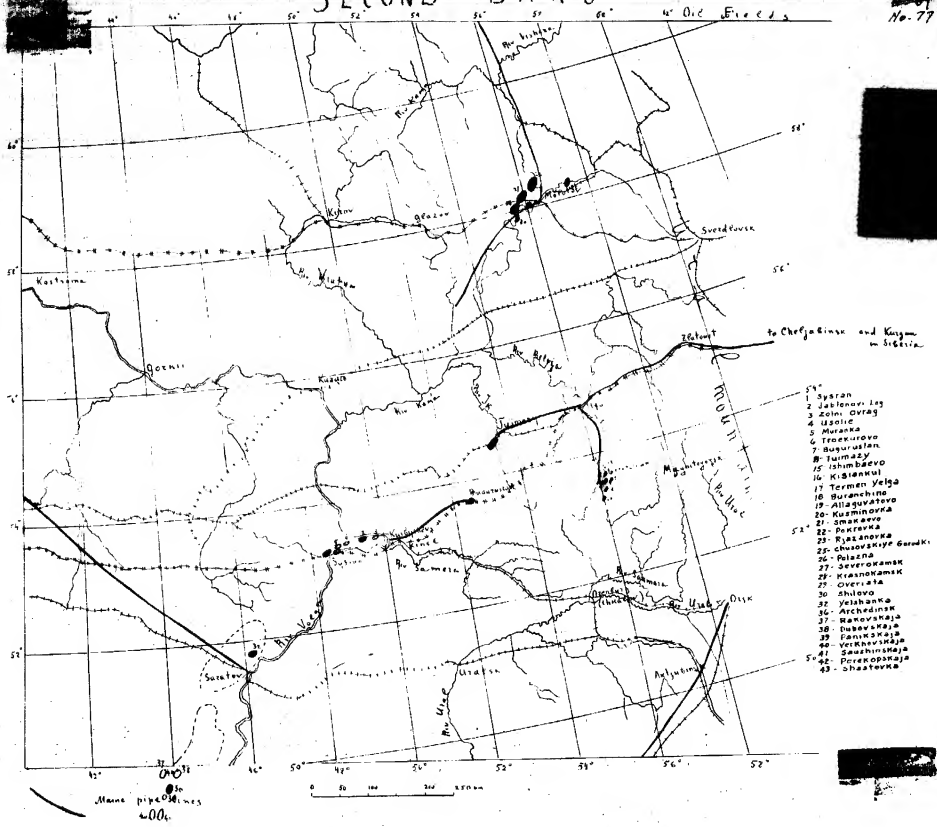
~~No 76~~ No 76



[redacted]

~~No 64~~ 11
No-77

SECOND BAKU



1 Sysran
2 Jablonovi Log
3 Zolni Ovrag
4 Usolie
5 Muranka
6 Troekurovo
7 Buguruslan
8- Tuimazy
15 Ishimbaevo
16 Kislankul
17 Termen Yelga
18 Buranchino
19 - Allaguvatovo
20- Kusminovka
21 - Smakaevo
22- Pokrovka
23- Rjazanovka
25- chusovskiye GorodKi
26 - Polazna
27- Severokamsk
28- Krasnokamsk
29 - Overiata
30 Shilovo
32 Yelshanka
36- Archedinsk
37 - Rakovskaja
38 - Dubovskaja
39 Paniksкaja
40 - Verkhovskaja
41 Saushinskaja
42- Perekopskaja
43 - Shaatovka

[redacted]

ILLEGIB

[redacted]

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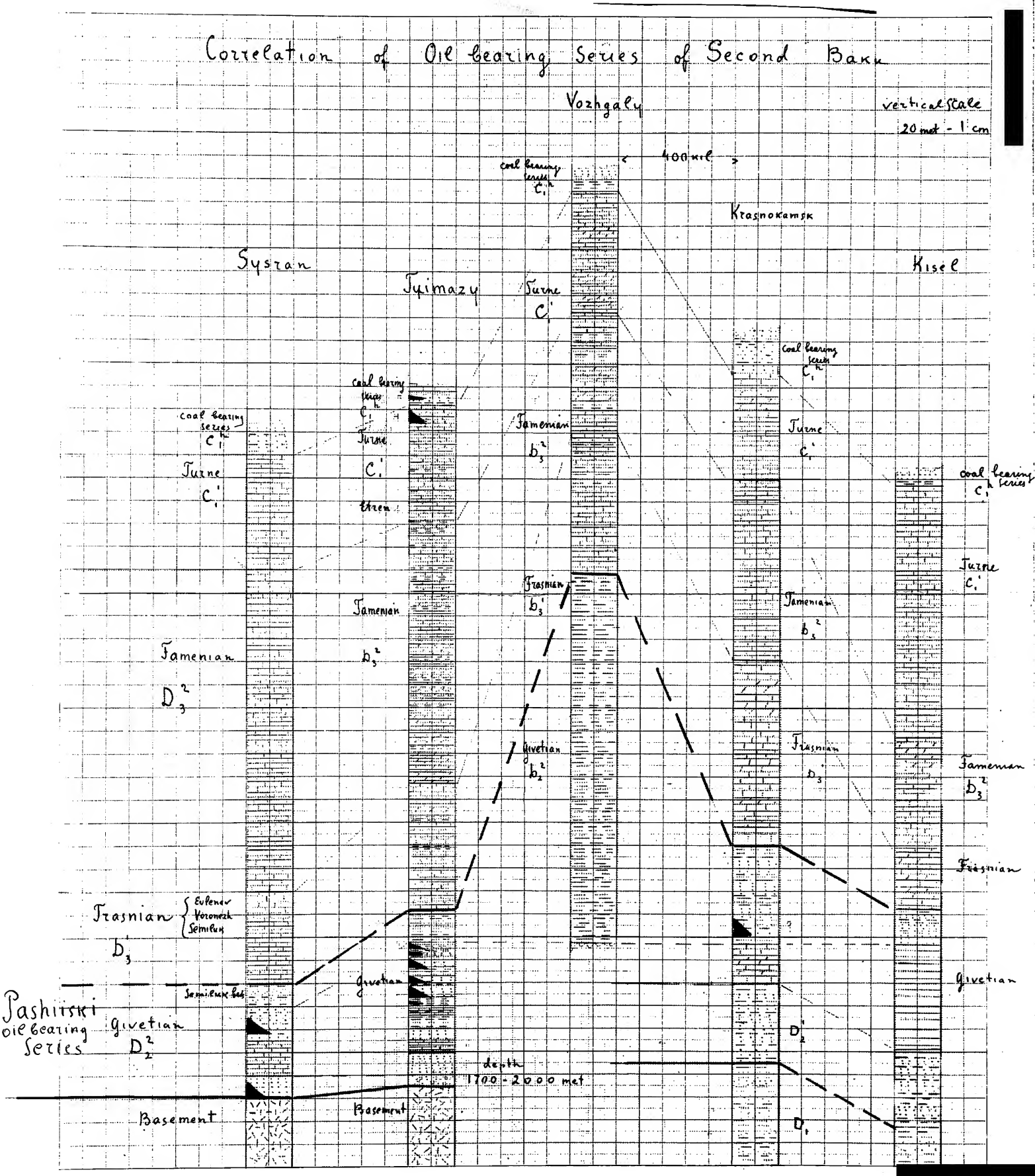
N° 78

25X1X

Correlation of Oil bearing Series of Second Baku



ILLEGIB [redacted]

25X1A

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Deteils of Oil bearing series of Krasnokamsk - Tuimasy Fields

Seria C. „Pashinski" Middle „Devonian.

Oil Bearing Seria „C"

middle devonian

N 79

Vertical scale

5 met - 1 cent

data of 1946 - 47

Krasnokamsk

Tuimazy

8 m

7.

8.

9.

6.

11.

13.

13.

21.

5.

32.

1.

5.

4.

41 m

I oil Bearing horizon

II "

III

IV

gips

V

VI

D_3^1

D_2^2

Gwetian

Underlying Domanique beds

limestone „Kinzhal"

I oil horizon

thickness 25 m

thickness of sandstone 17 m

II oil horizon

thickness 20 m

oil sandstones have 30-400 om

water sandstones 2-3 om

limestone „Stul"

III oil horizon

thickness 20 m

D_2^2 Gwetian

thickness 59 m

lower limestone

Cristalline Basement

IV - Pashinski [illegible]

V, VI - [illegible]

V, VI of Pashinski [illegible]

[illegible] of III horizon

IV of Tuimazy - III - III horizon

25X1A

[redacted]

VERTICAL FILE

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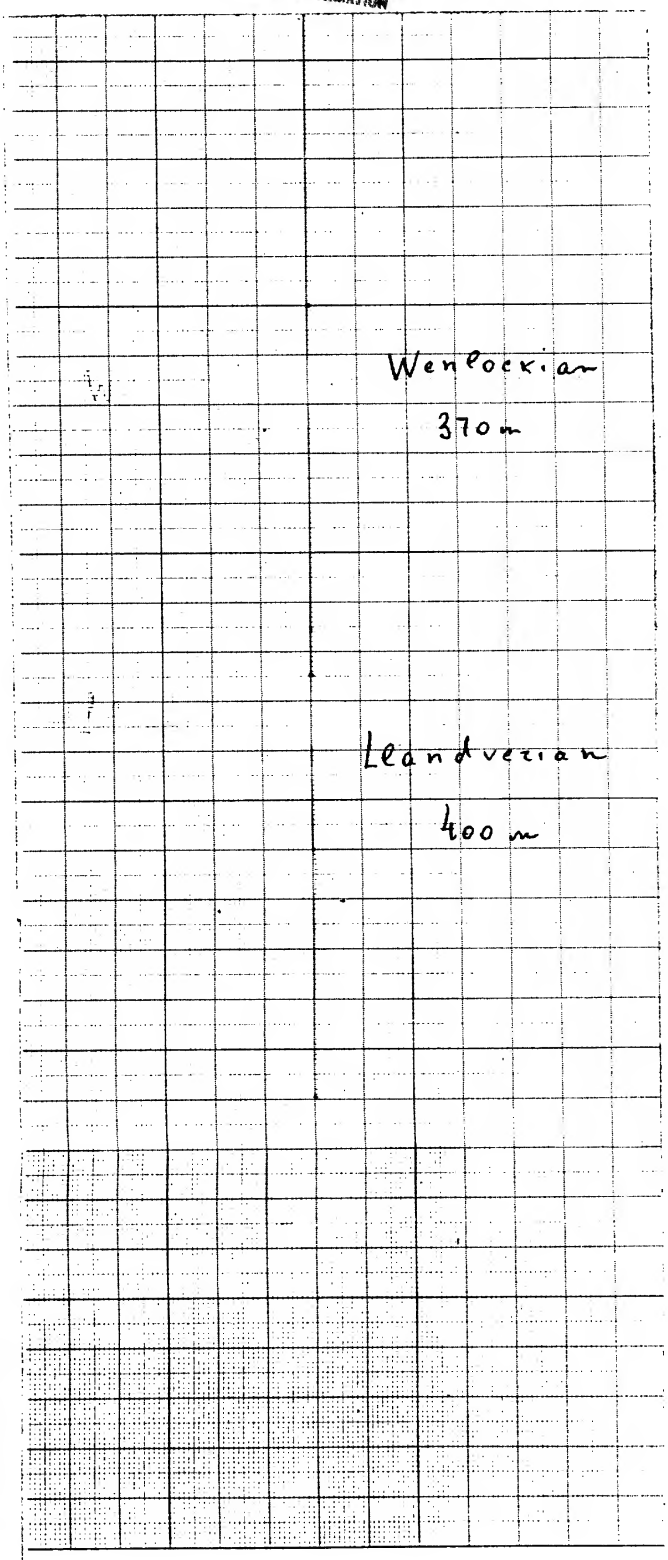
SECURITY INFORMATION



79a

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25X1A

VERTICAL FILE

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		290 m	C_2
Kizil oil horizon		40m (Kizilchanskie horizon)	300m
74	Namur		
		340 Vise	
248	Vise		Vise 400m
oil horizon		C_1^h coal series with oil	
50	C. Turne	To coal bearing series Turne	Turne 100m
280	b_3^2 Jamenian	230 Jamenia	Jamenian 120m!
			Frasnian b_3^1 240 m
too	carbonat part of Frasnian	130m Frasnian	
b_3^1	oil bearing Frasnian Jashiwi series	Givetian	Givetian 130m
Basement	C^0	125m oil bearing series D_2	
		Basement	
			Eifelian
			D_1
			350-400
			Downtonian S
			Ludlovian 1000 m
			Wenlockian 370 m

79a

25X1A

[redacted]

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Ural trough

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SECURITY INFORMATION

Upper Permian
1200 m

Kungur
P_1^{kung}
500 m.

$P_1^{artinsk}$

Carboniferous and Devonian
in Ural

vertical scale
50 met - 1 cm

Tuimazy

Upper Permian
230m

Artinsk
1500 m

Sysran

79 a

Kungur
P_1^{kung}
160m

P_2

P_1

P_1^{art} Artinsk
150m

Permian deposits
in Ufimian amphytheatre
are represented by
P_1 Artinsk series
with the thickness some
hundreds meter.

160 C_3

C_3
176 m

C_3
130m

20m
Moscovian

Ural folding zone
C_3 only in some peaces

C_2
230m Martian

C_2
290 m

C_2
300m

Kizel horizon
Namur
74

40m (Krasnokamsk horizon)

25X1A

[redacted]

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Regional Correlation of Permian - Carboni
Leningrad SE to South Ur

Moscow

vertic

50 m

P_2 Tat

150 m

50 m P_1 Kungur

15 P_1

C_3

117 C_2

Leningrad-
Novgorod

207 C_1

Famenian
300 m
b_3^2

400 Famenian
b_3^2

Frasnian
100 m
b_3^1

131 Frasnian
b_3^1

Gwetian
240 m

79 a

25X1A

[redacted]

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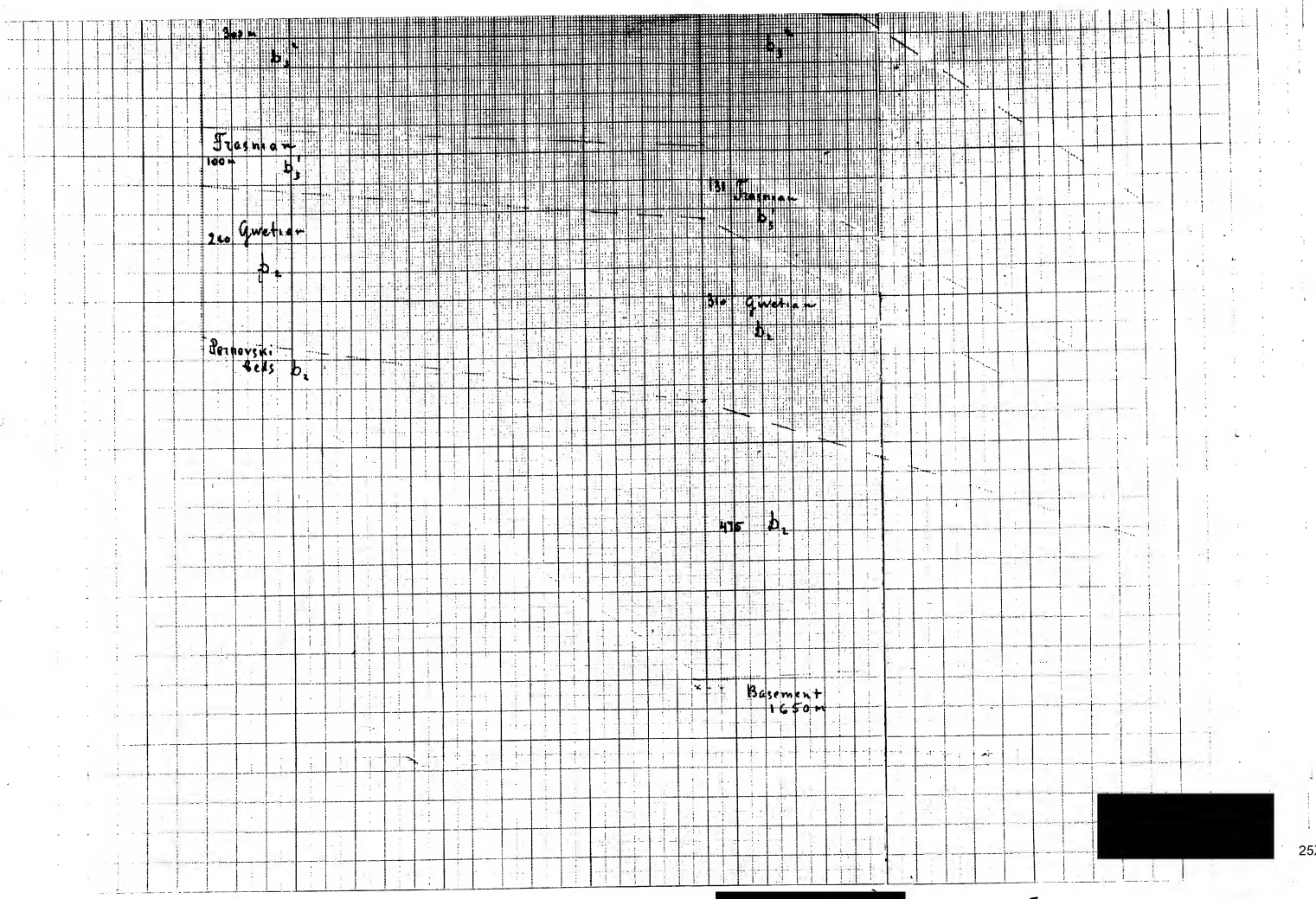

[redacted] 25X1A

[redacted] 79a

25X1X

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4 P. Ischimbaeva! N=Re 6

25X1X

[redacted]

25X1A

[redacted]

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Ishimbaevo oil fields - Reefs

№ 80

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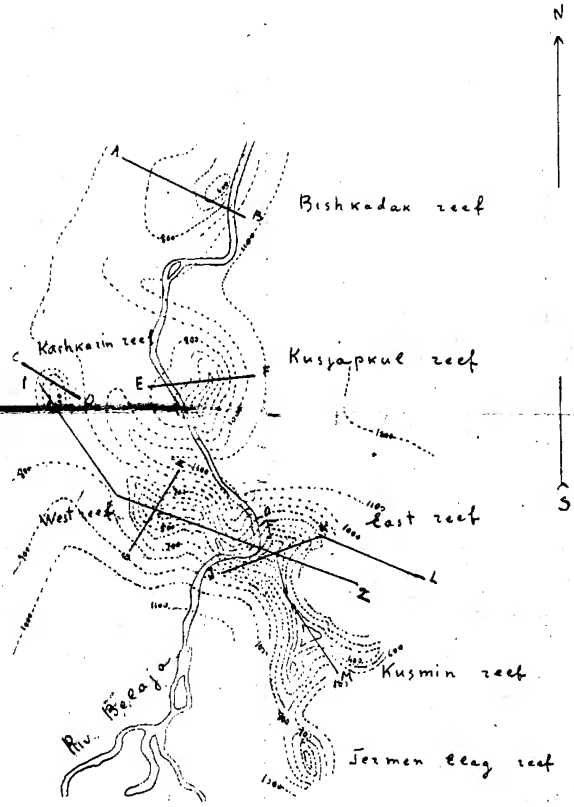

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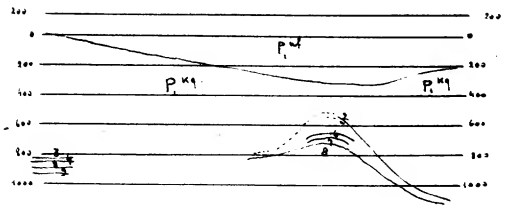
Ishimbaevo Cross Sections

N° 81

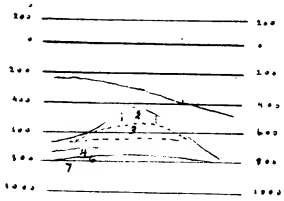
Section through Jaz Biskadan reef

A - B



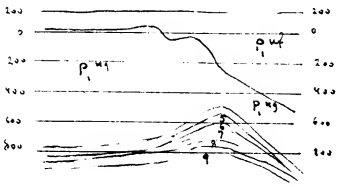
Section through South Kashkazinsk reef

C - D



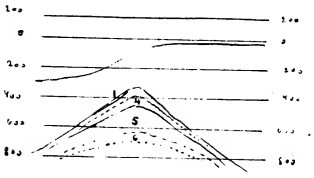
Section through Kussapkulov reef

E - F



Section through West reef

G - H



1 Upper Artinsk deposits

2 Cladorhonus limestone

3 Upper zone with Ps. Cutugini

4 Lower zone " "

5 Horizon with Ps. urdalensis

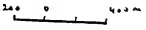
6 Upper zone with Ps. moellerí

7 Middle zone " "

8 Lower zone " "

9 Upper zone of Shwagerina limestone

10 Middle " " "



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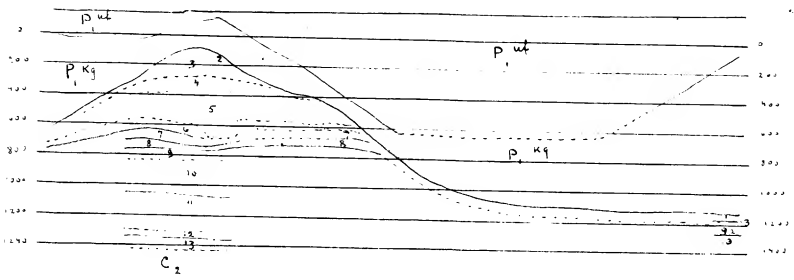
Ishimbaevo Gas Scale

N°82

Section over East Reef

J - K - L

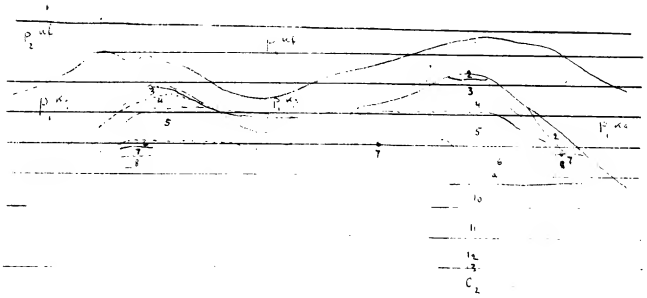
W E



Section over Souther and Easter Reef

O - M

S N



1. Upper Artinsk deposits
2. Gadokhonny limestone
3. Upper zone with Ps. tutugini
4. Lower " " "
5. Horison with Ps urdalensis
6. Upper zone wit Ps. moelleri
7. Middle " " " .
8. Lower " " " "
9. Upper zone of Shwagerina limestone
10. Middle " " "
11. Lower zone of Shwagerina limes
12. Horison with Pseudofusulina
13. Teitsit Horison

200 0 400 m

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[redacted]

Ishimbayevo Fields

Cross section 1-2

N W

Katherinovo reef

West reef

East reef

SE

30"

30"

Jurassic

Jurassic continental deposits

Upper Permian

Upper Permian reef limestone

Upper Permian salt

Upper Permian sulphate

Upper Permian salt

Upper Permian sulphate

Upper Permian

Upper Permian reef limestone of Ashinsk and Sakmarian

25X1A

[redacted]

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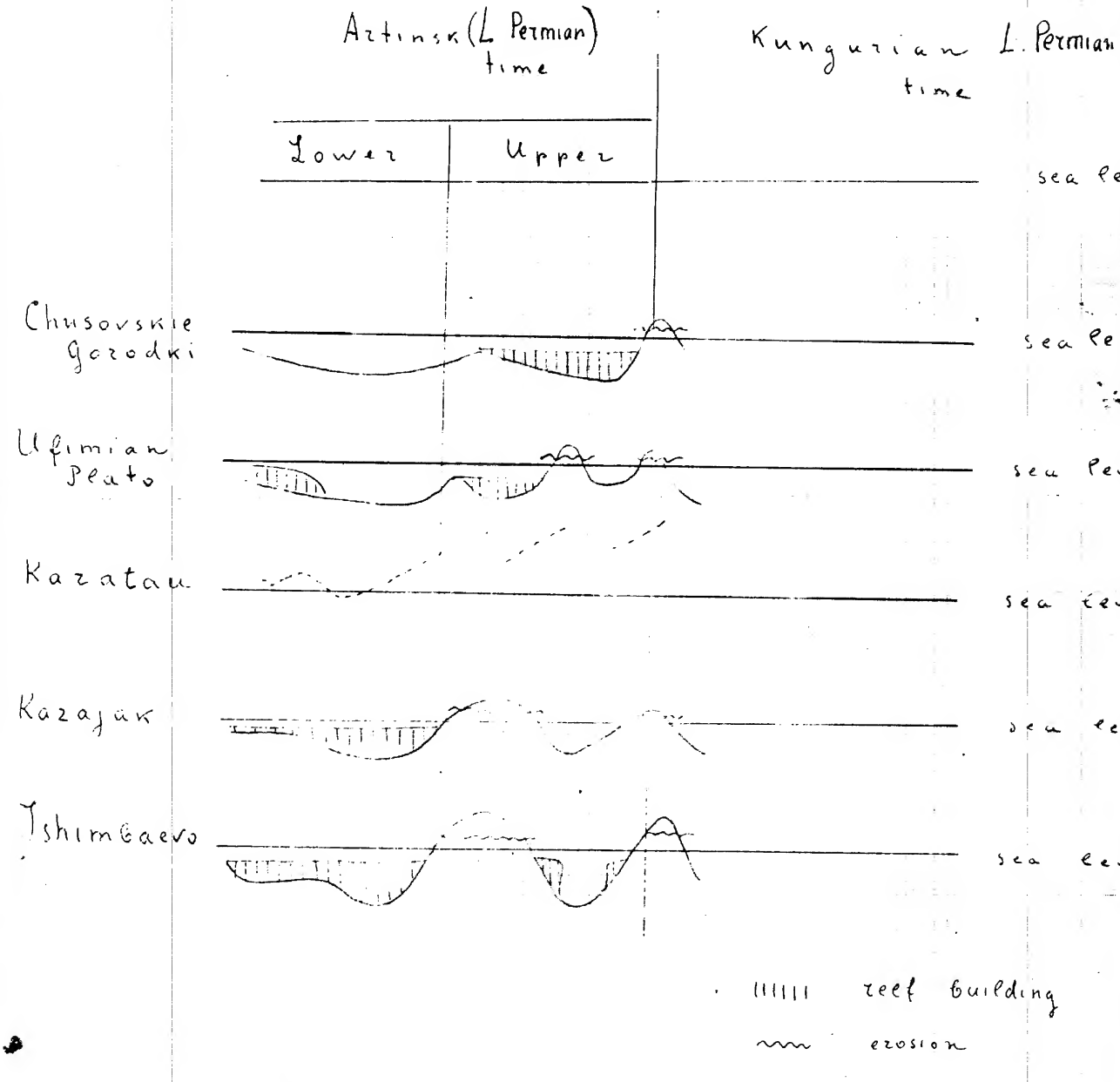
N°84

Illustrating reef building in Lower Permian



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Cross Section C – D

N 6

50 mile

E

Trough

Platform

West slope of Yale

P_1^K P_1^A P_1^A

P_2

Facies onto. Structures taken

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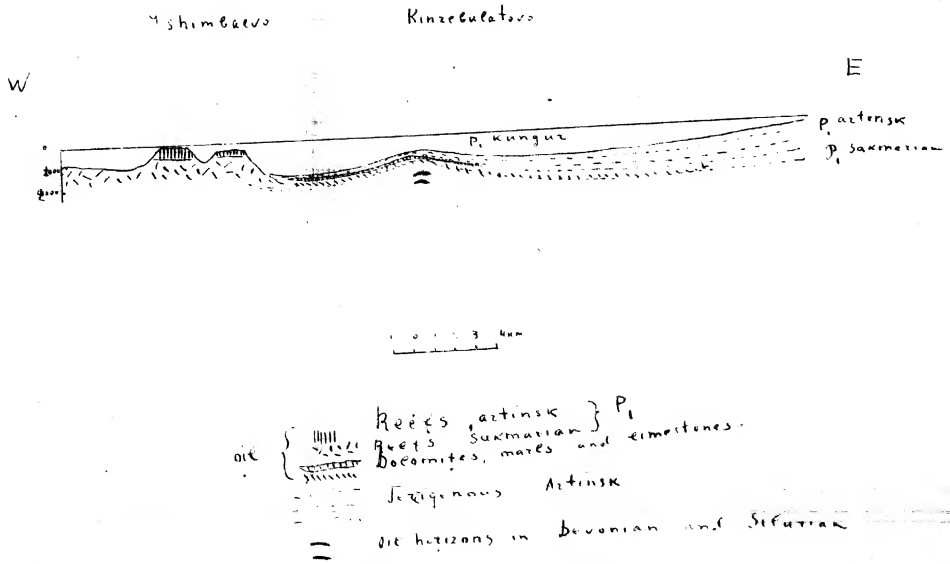
N 8/

Cross Section E – F



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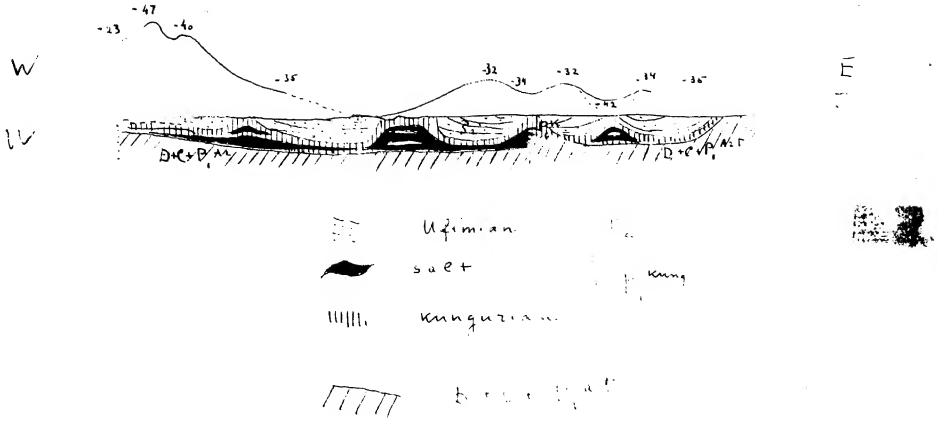
Cross Section C - H

N° 88



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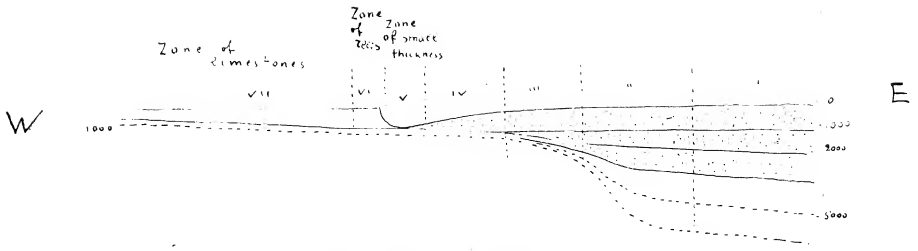
Cross section J - J



I - IV Facies of Lower Permian (Artinsk) I

Structures taken out

V Zone of small thickness

VI Zone of reefs

VII Seatform limestones facies

Relation of oil and asphaltites

№ 90

b_3 trans with asphaltites,

Outcrop of Devonian with asphaltites in folding zone

Tuimaza

Oil from Devonian on Platform structure

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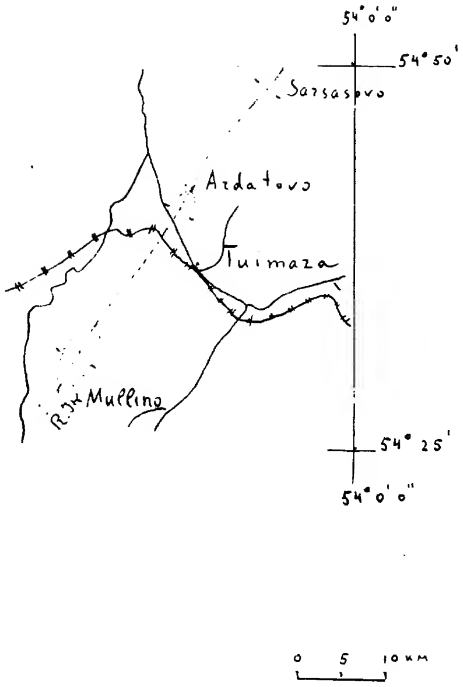

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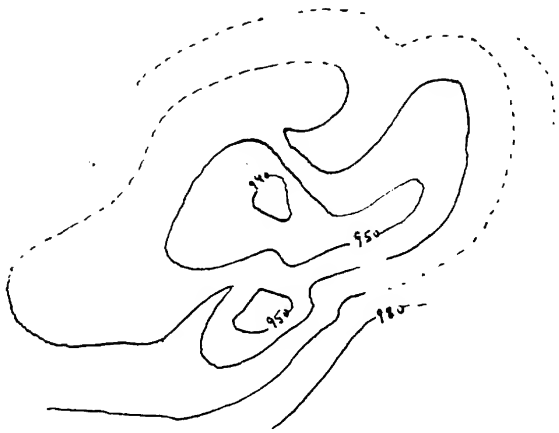
N906



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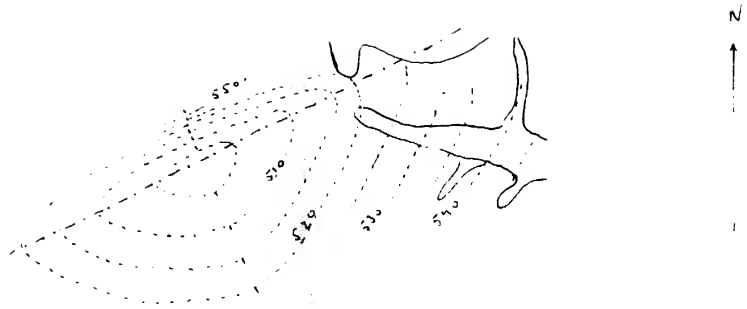
Syszan

№ 91



250 0 500 1000

Contours on top of variegated clays

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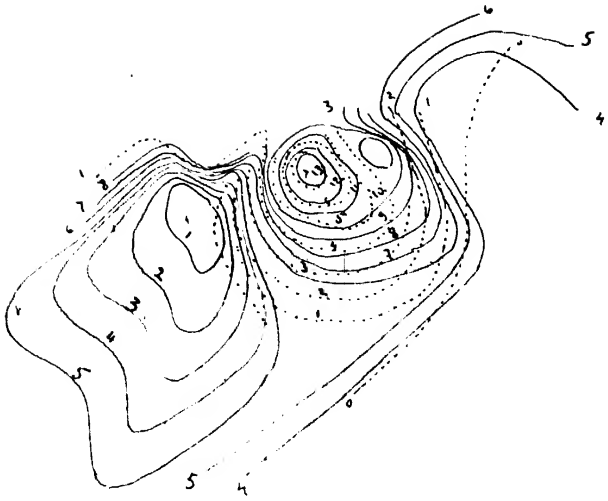
Syzran

Relation of thickness to Saturation

№ 92



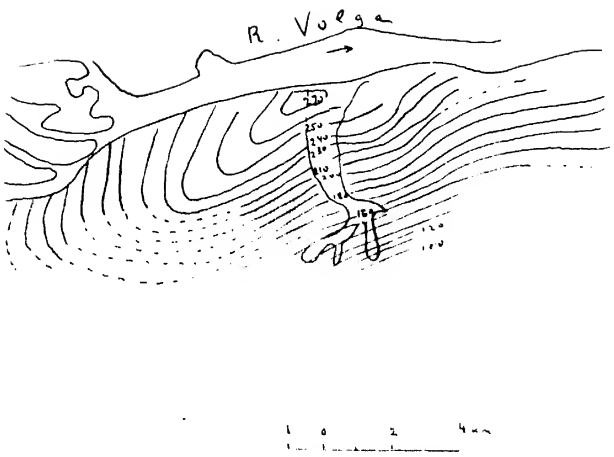
Thickness lines of oil horizon B.

Lines of equal saturation.

N93

Jabeonovyi Ovrag

ILLEGIB



Contours on top of Shwagerina limestone

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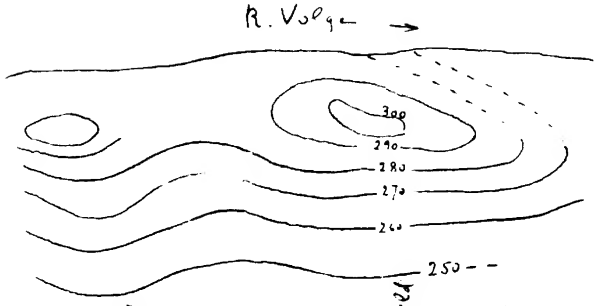
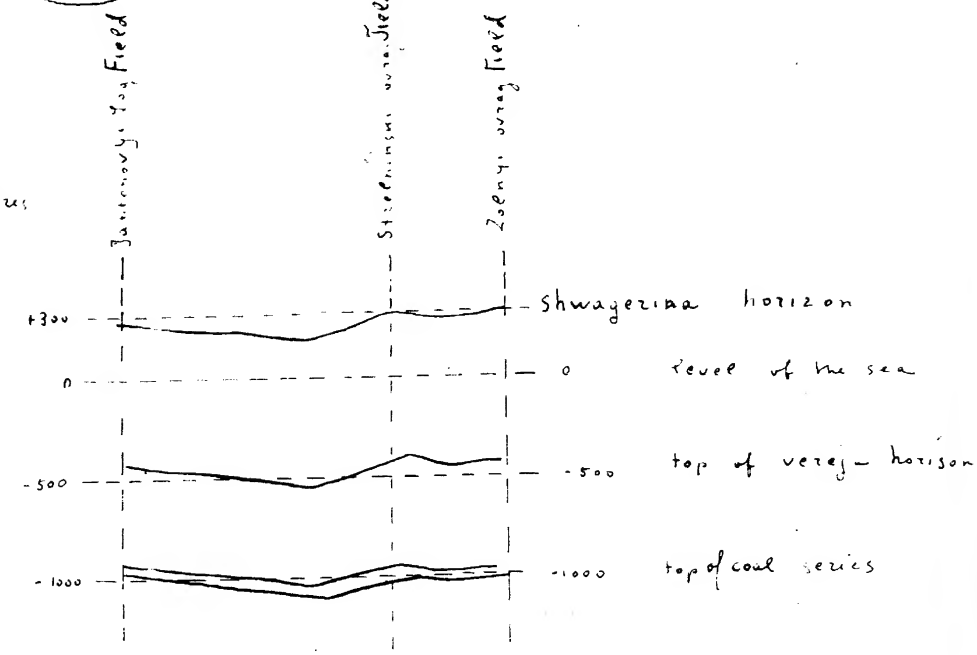
Strelninski structure

N 94



contours on top of Shwagerina horizon

Showing relation of crests of oilfield structures in Syzran area



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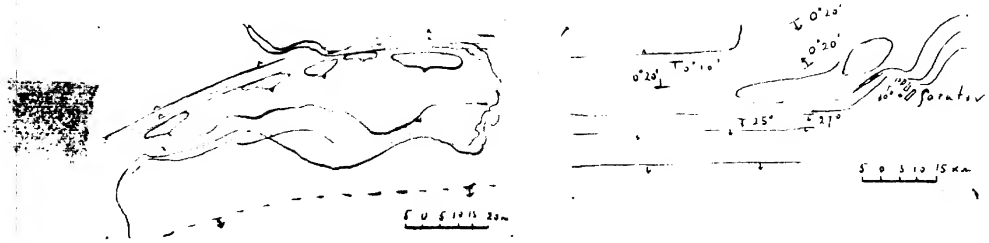
Showing the two types of flexure structures characteristic of middle Volga district of Russian Platform

N95

Syzran - Samara

Saratov



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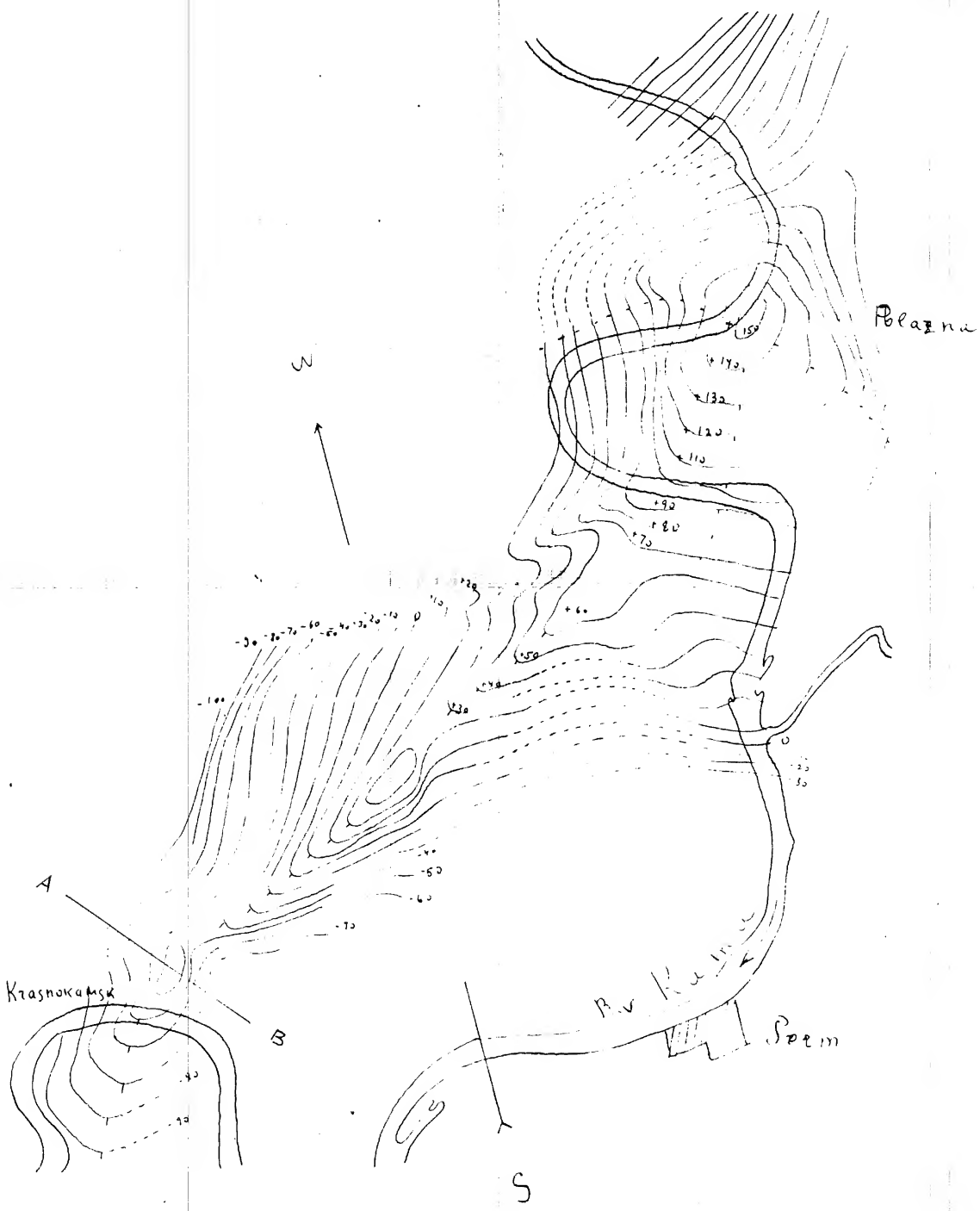
N 96

oil fields



2 0 2 4 6 KM

contour lines in the [illegible]
of the Upper Kungurian [illegible]

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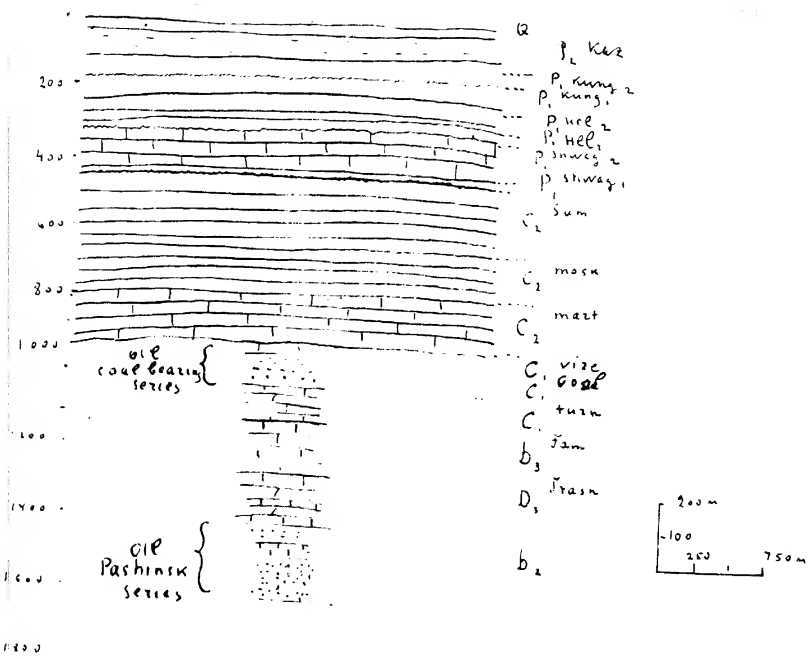
N 97

Krasnokamsk Field Structure

A - B



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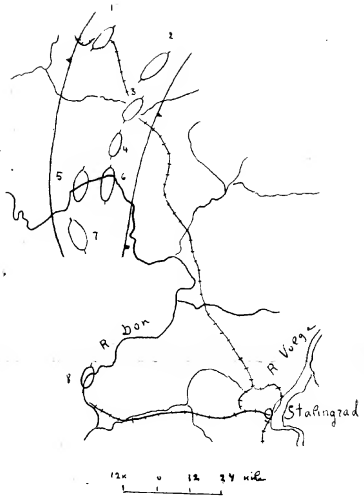
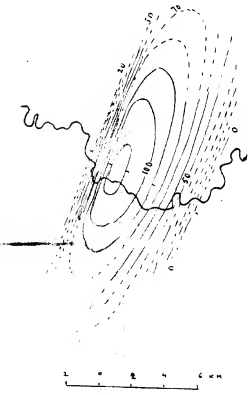
N 98

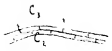


Details of Archedinski (3)



contours on contact $C_2 - C_3$ (Carboniferous)

Cross Section of Archedinsk field



Oil Fields

1. Rakovski
2. Dubovski
3. Archedinski
4. Panikskaja
5. Verkhovski
6. Saushinski
7. Perekopski
8. Shastovski

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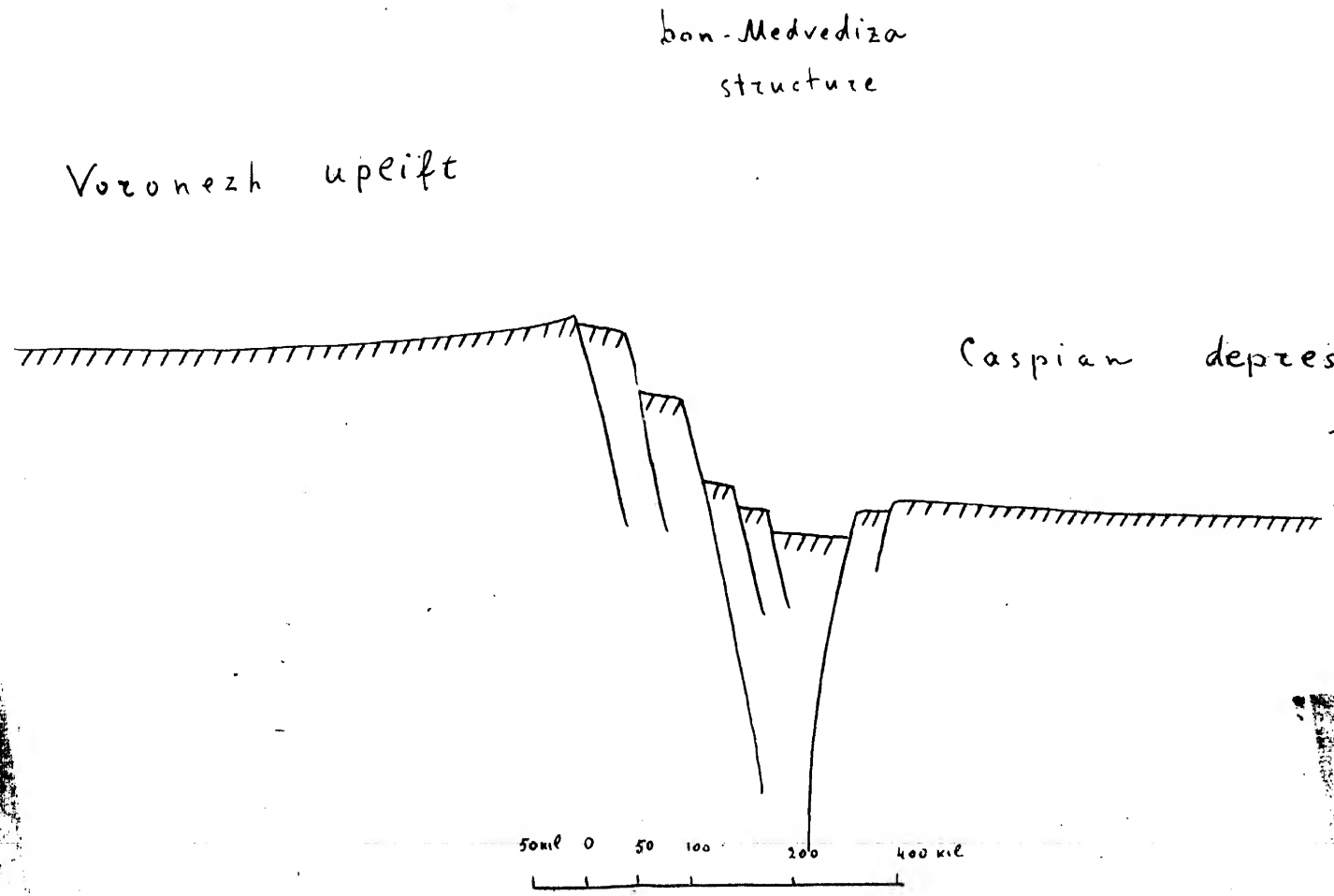
№ 99



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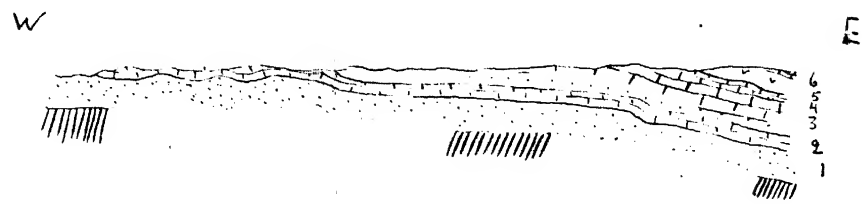
Ukhta

№ 107

Cross section A - A,



crystalline basement

Upper Devonian

6 Izma series with evaporites
5 Ukhtinski series
4 Sirachoi - Beegob series
3 Vetlasjanski series
2 Domanik series
1 Oilbearing series

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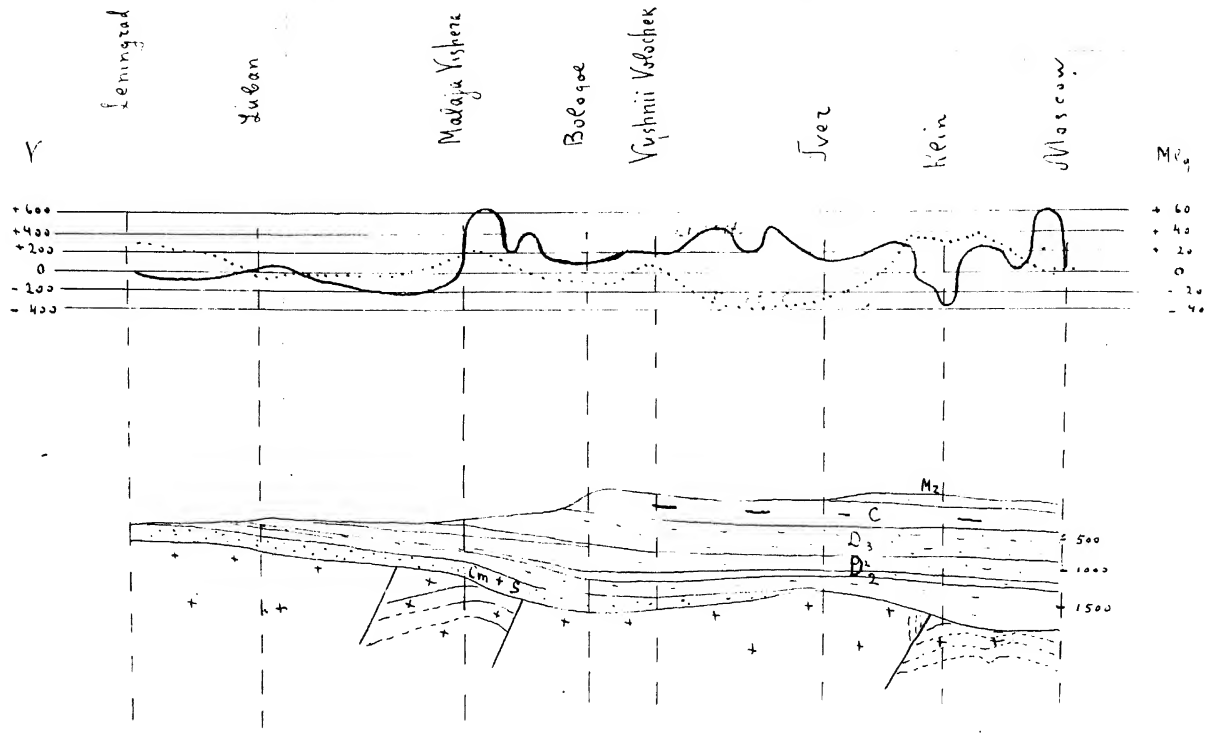
NW

Leningrad (Petersburg) - Moscow

Possible oil bearing region being explored

SO

N° 108



50 KIL 0 100 200 KIL

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Devonian Facies between Leningrad - Moscow

N109

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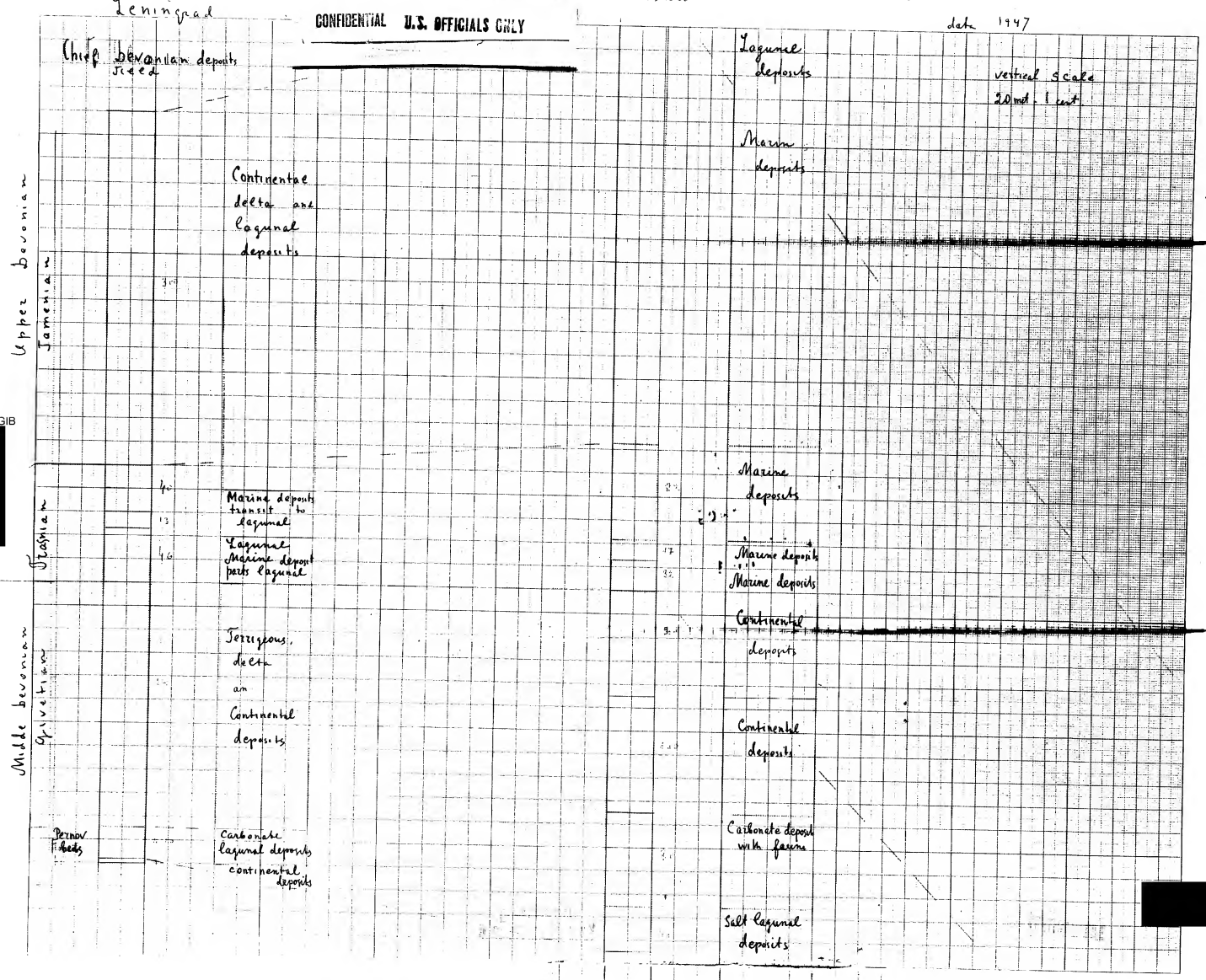
date 1947



ILLEGIB

25X1A

25X1X

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Jernov beds

Carbonate lagunal deposits

continental deposits

with fauna

Salt lagunal deposits

[redacted] 25X1X

Terrigenous marine deposits

only in

Cuse

continental deposits

Crystalline basement

1650 m.

no 109

25X1A [redacted]

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N° 110

arboniferous and Devonian

Ural Mts.

scale

ns – 1 cent

ILLEGIB [redacted]

Kisoe

Ural folding zone

Krasnokamsk

Kungur

Upper Artinsk

Vozhgaly

Moscowian

Mazian

Vise

Coal series

Turne

Famenian

Fransian

Devonian terrigeous deposits

Pashiiski oil bearing series

400 km

150 km

C_3 750

225

Vise and Namur

340

Coal bearing series C_1^h

180

Turne

200

Famenian

200

Fransian

90

Givetian

150

Eifelian

150

D_1 thickness not known

[redacted]

25X1X

[redacted]

25X1A

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Regional Correlation of Leningrad

Moscow

150 P_2 tatarian

80 P_2 kazanian

15 P_1

34 C_3

117 C_2

207 C_1

Leningrad
Novgorod

300 Famenian

100 Frasnian

260 Givetian

Petrov serie

400 Famenian
b_3^2

131 Frasnian
b_3^1

310 Givetian
b_2

b_2

475

500 m

110

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Regional Correlation of Permian, Carboniferous and Devonian

Leningrad to Ural Mts

Moscow

vertical scale
50 meters — 1 cent

150 P_2 tatarian

50 P_2 kazanian
15 P_1

34 C_3
117 C_2

207 C_1

400 Famenian
b_3^2

131 Frasnian
b_3^1

310 Givetian
b_2

b_2
475

Vozhgaly

Coal series
115 Tuzha
C_1

115 Famenian
b_3^2

425 Frasnian
b_3^1

Devonian deposits
Pashiisk

?

400 m

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110

[redacted] [redacted] ILLEGIB

25X1X [redacted] ILLEGIB

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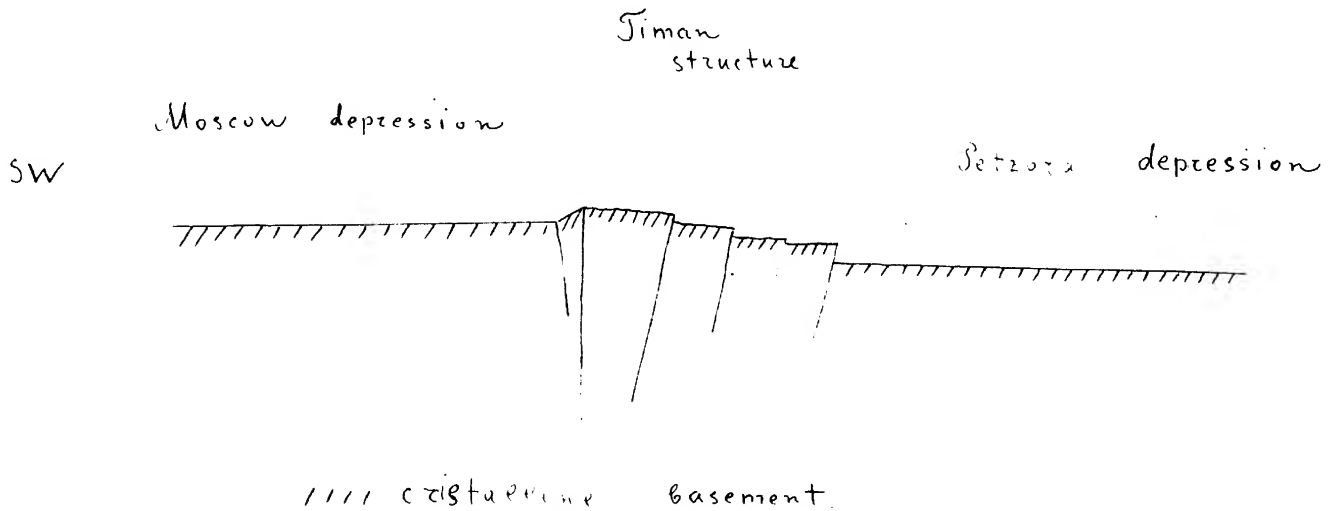
Timan Region
Showing general type of structure

N° 10



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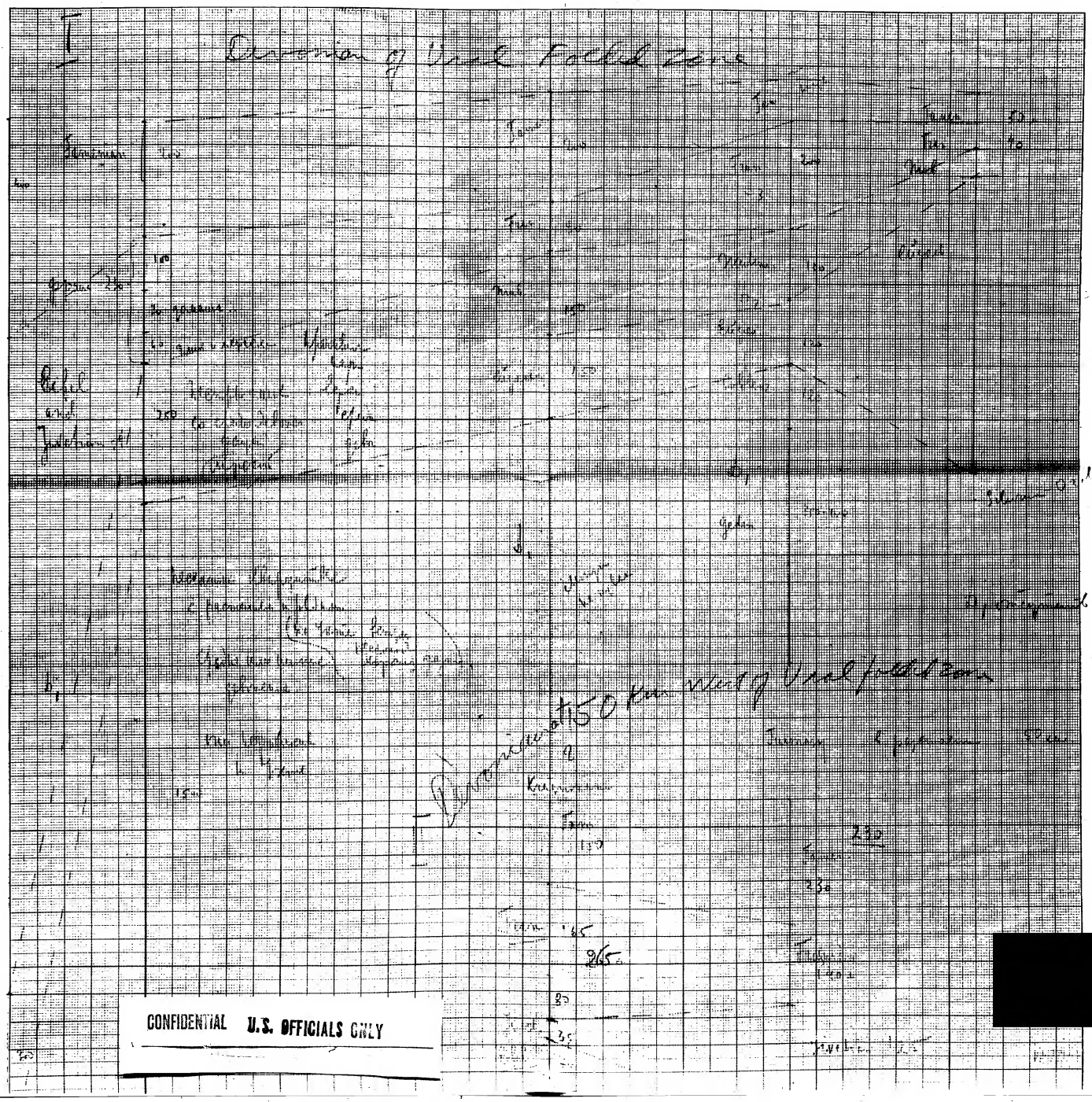
Devonian Thickness Correlation at Various Distances Westward from Unal Field Zone

№ 111

STANDARD CROSS SECTION
ENGRAVING 300 MILLIMETER



25X1A

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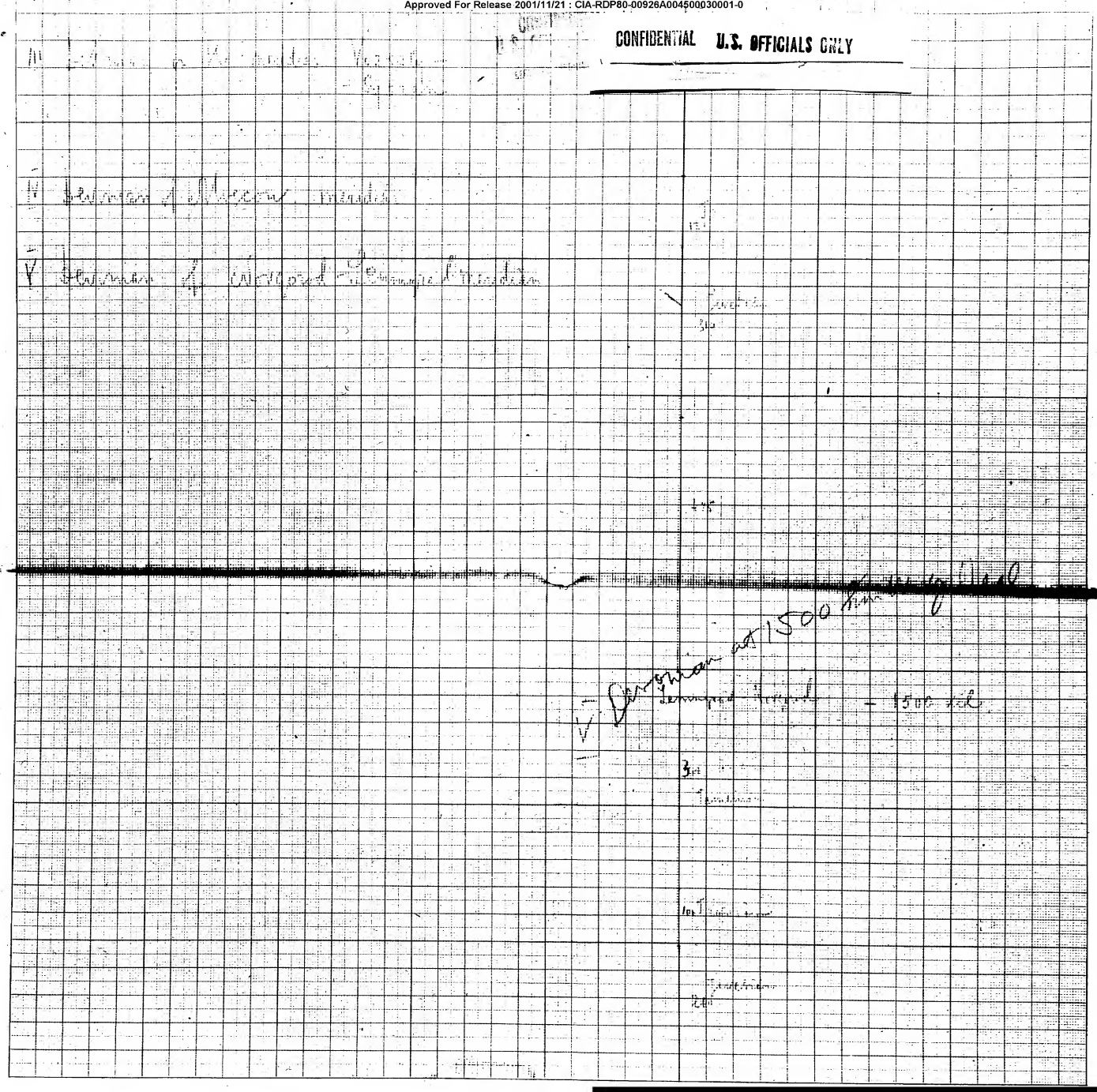

[redacted]

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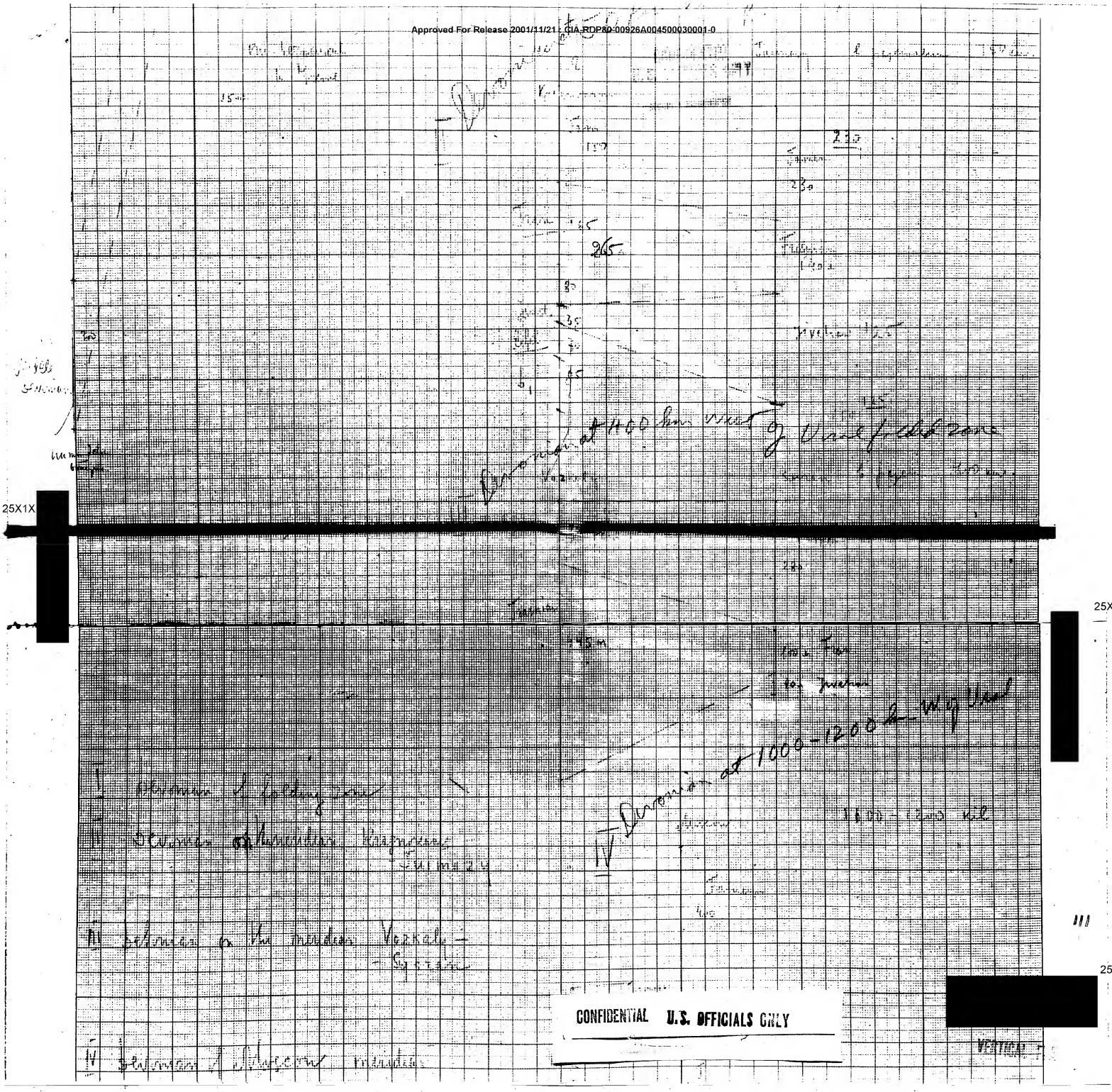

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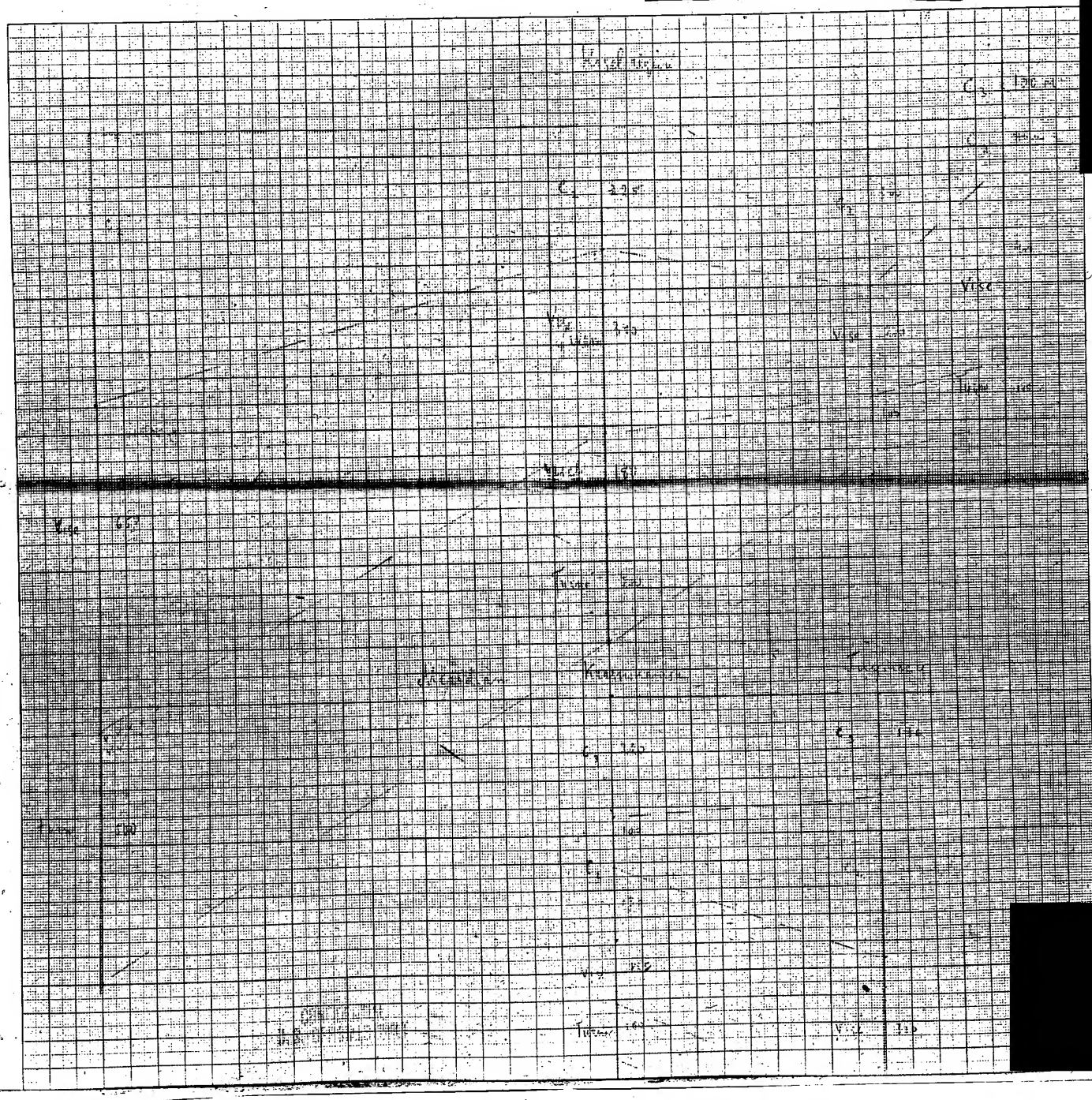
25X1A



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25X1X

[redacted]

25X1A

[redacted]

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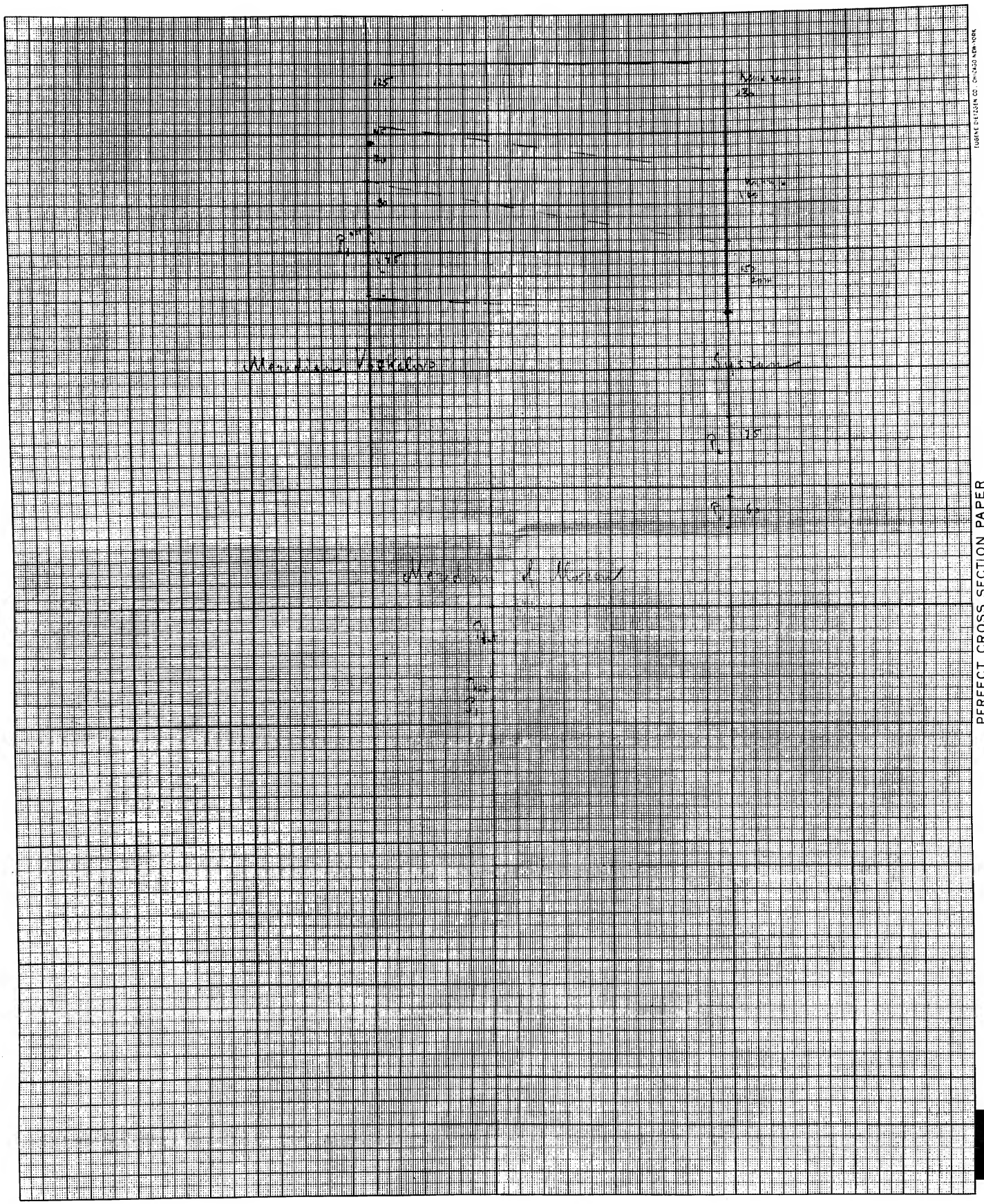

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PERFECT CROSS SECTION PAPER
MILLIMETERS
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Kungur of trough

IIBa

Ishimbaevo region

"Aktiubinsk" region

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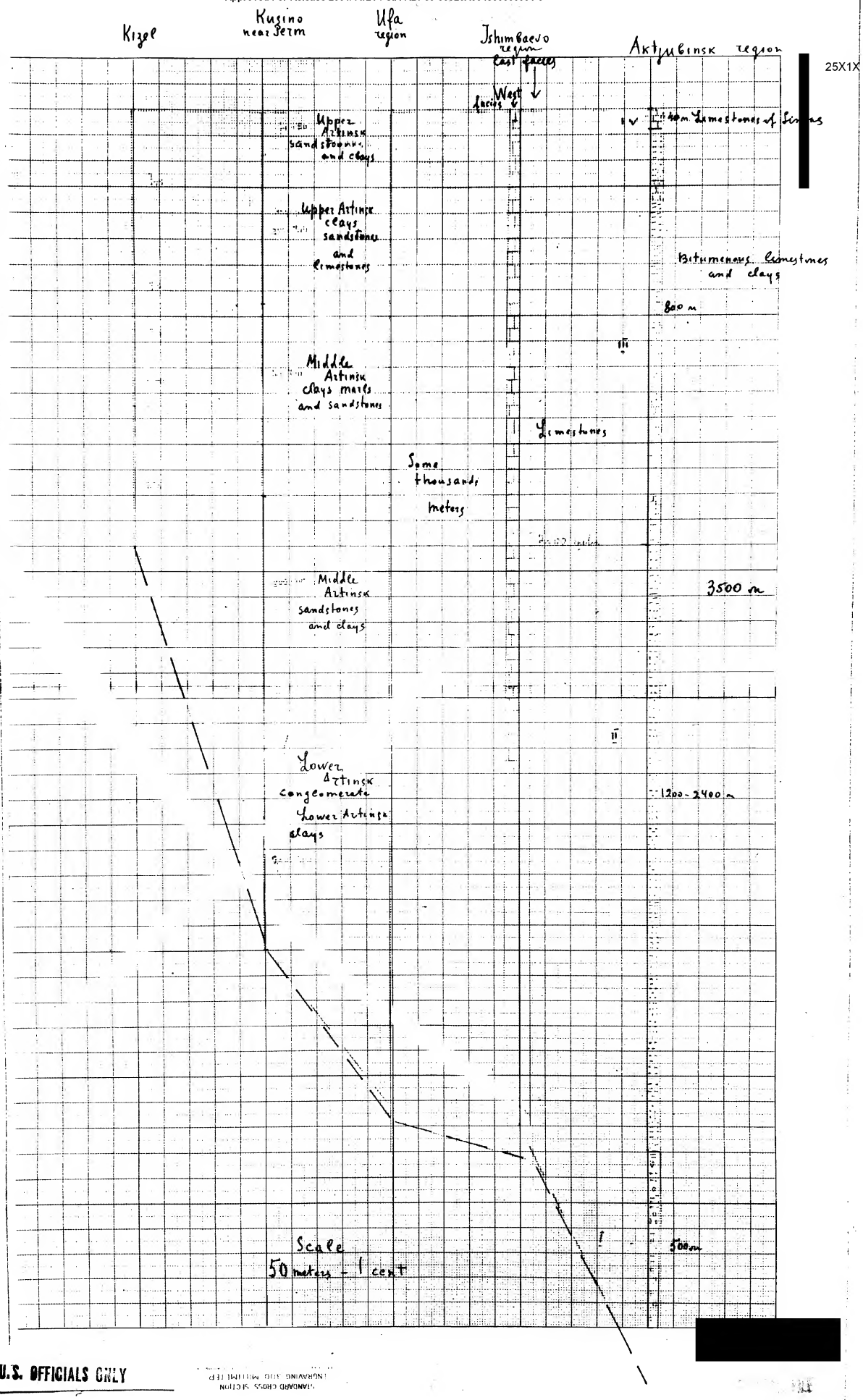

25X1X

[redacted]

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Lena Taymir Region

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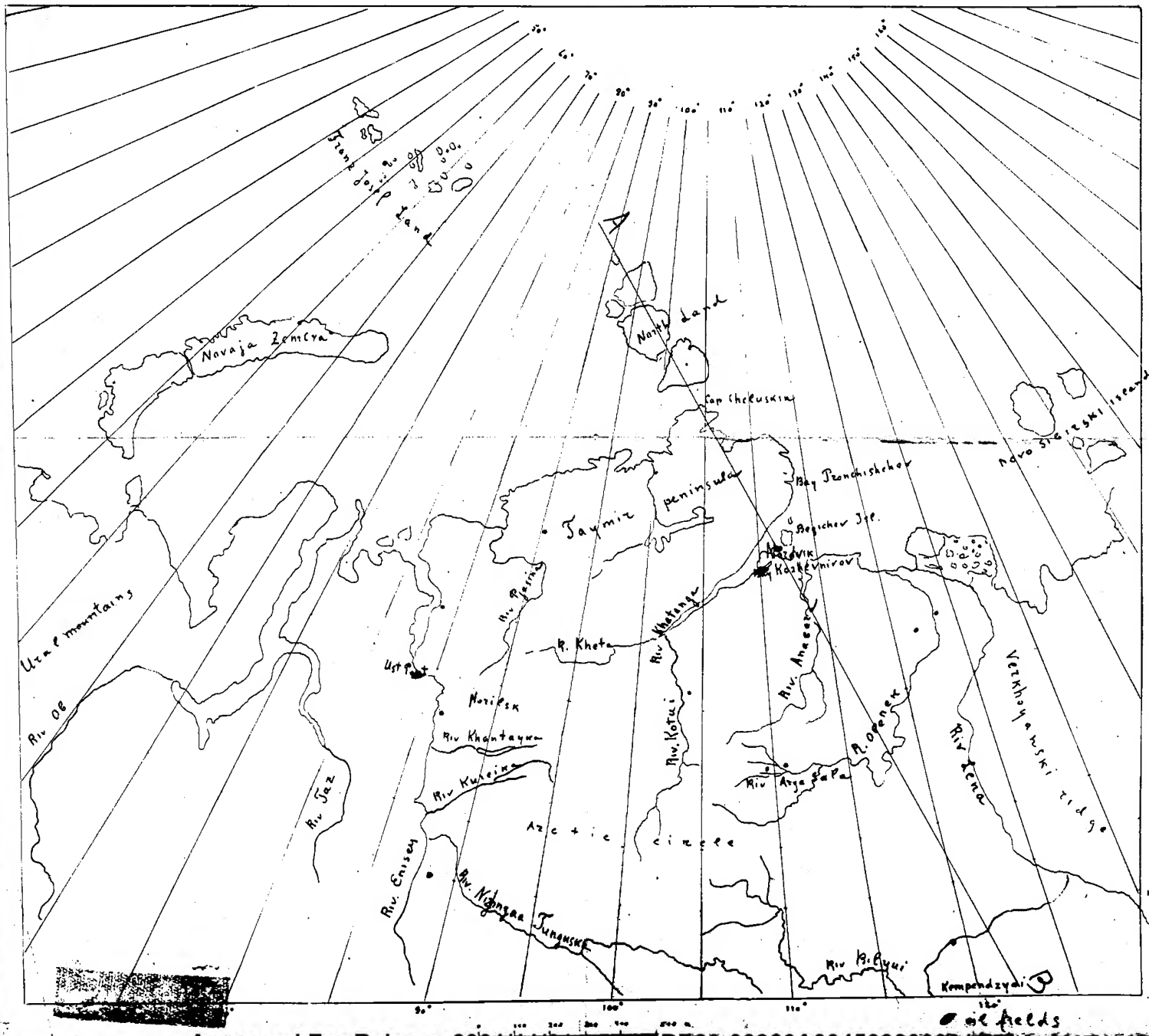

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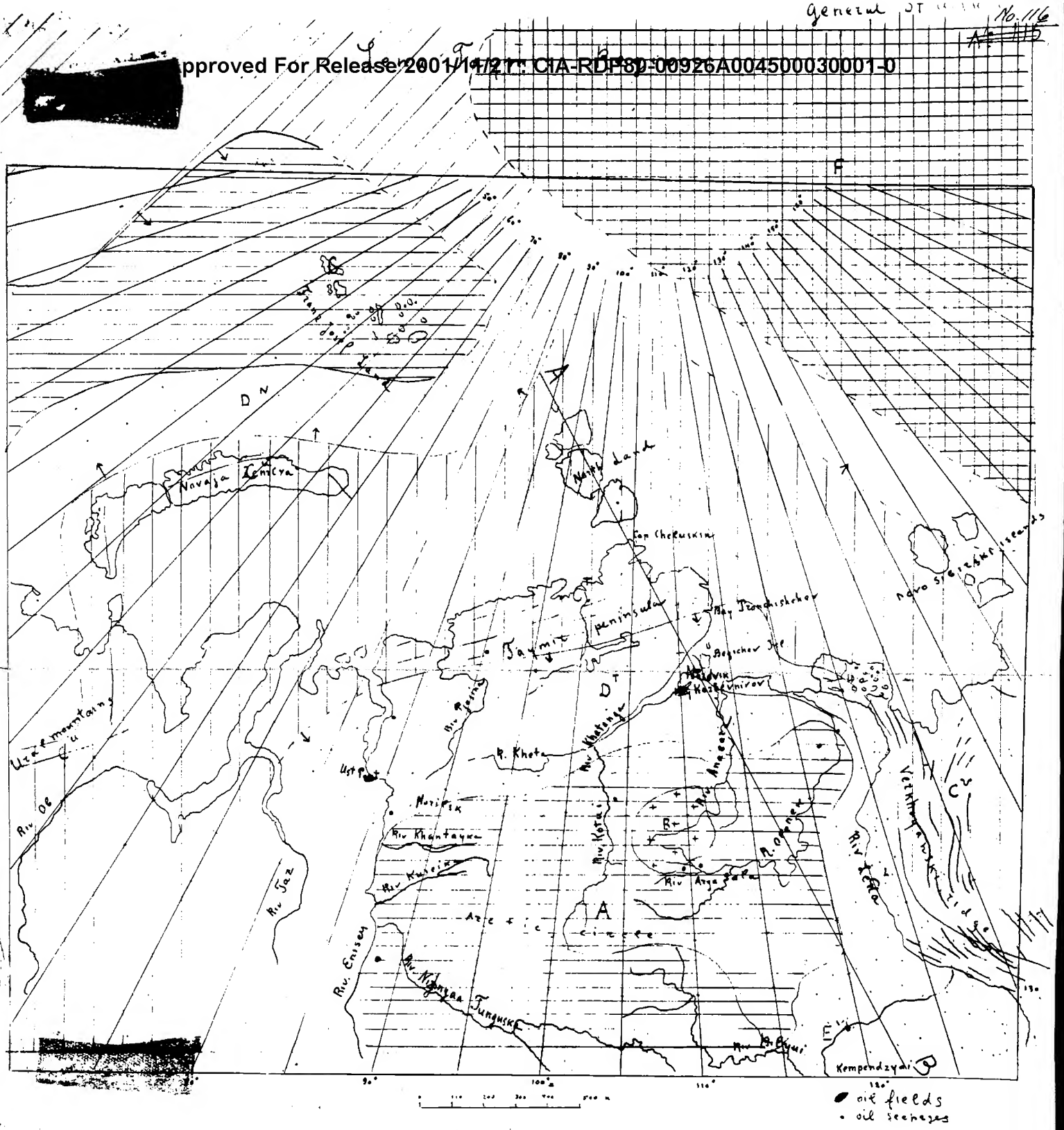
[redacted]



A - Siberian Platform

B Anabara Pre-Cambrian Massive

C^U C^T C^V Hercinian folding zone (Ural, Taymir, Verkhoyansk)

D^N D^T D^L Trough (Novaja Zemlya, Taymir & Lena)

E^{VI} Vilyui Depression

F - Old Artic Mass

G - Barenz Sea Platform

H - Caledonidan (Spitzbergen)

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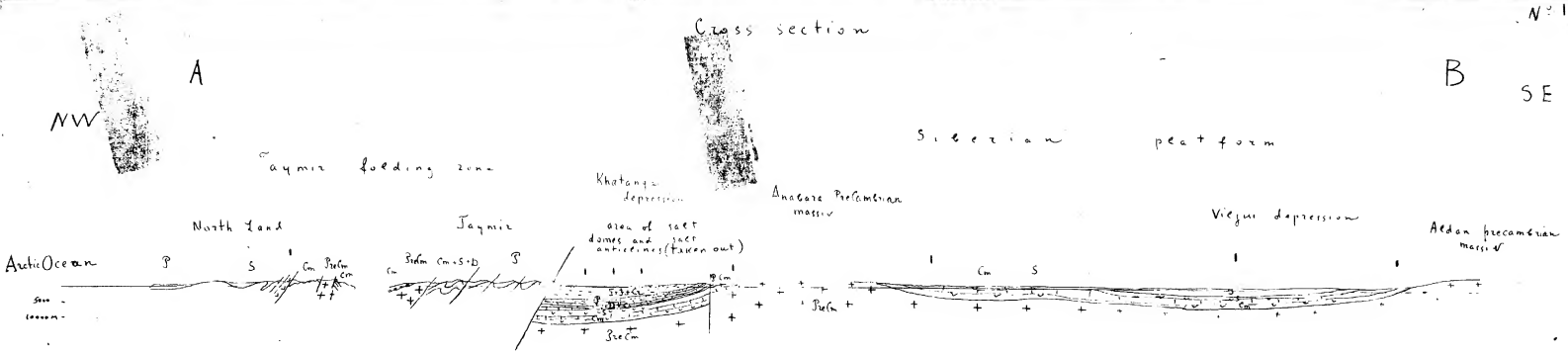
N° 117

Cross section



v evaporites in Cambrian and Silurian

l oil seepages

0 75 150 225 300 375 km

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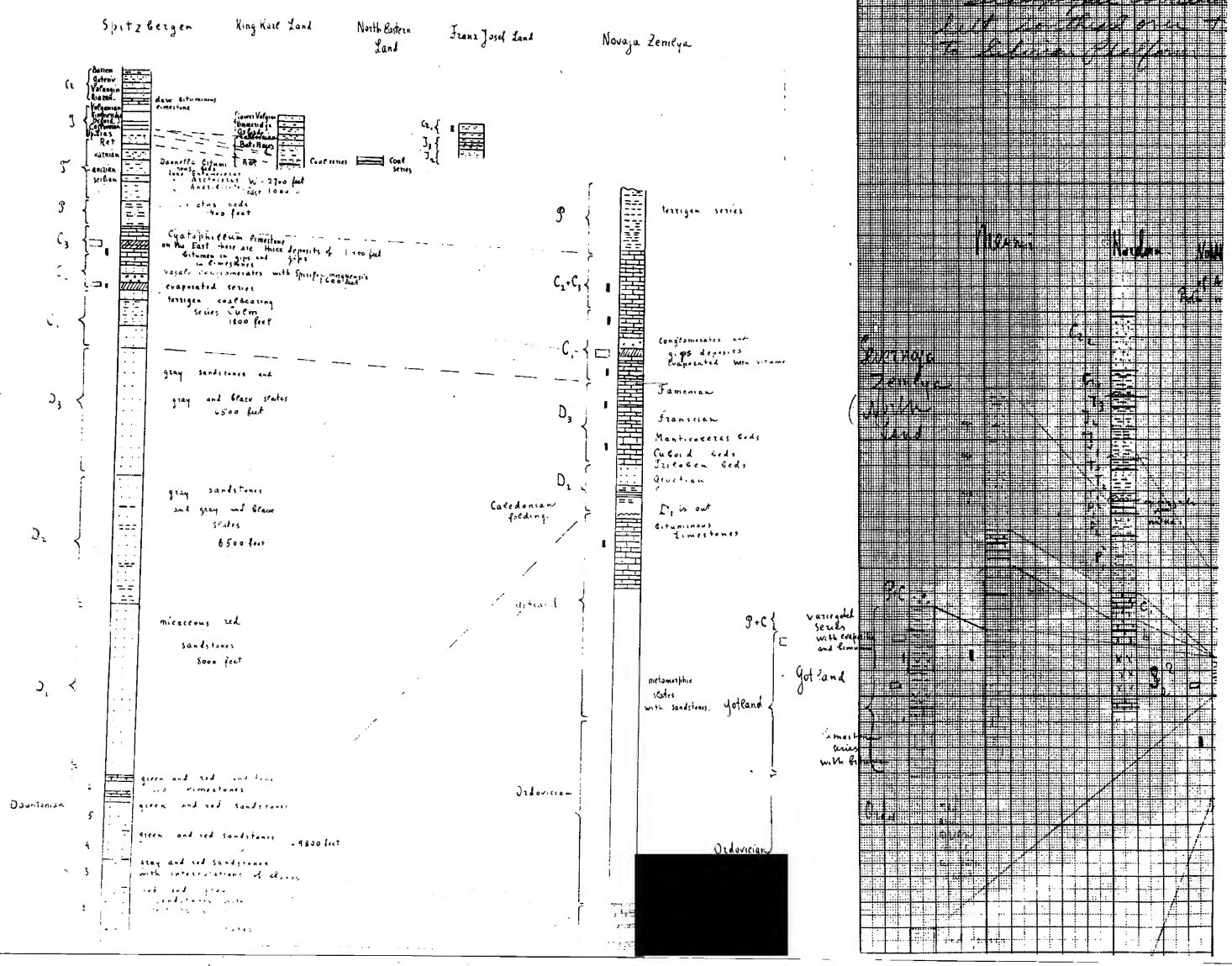

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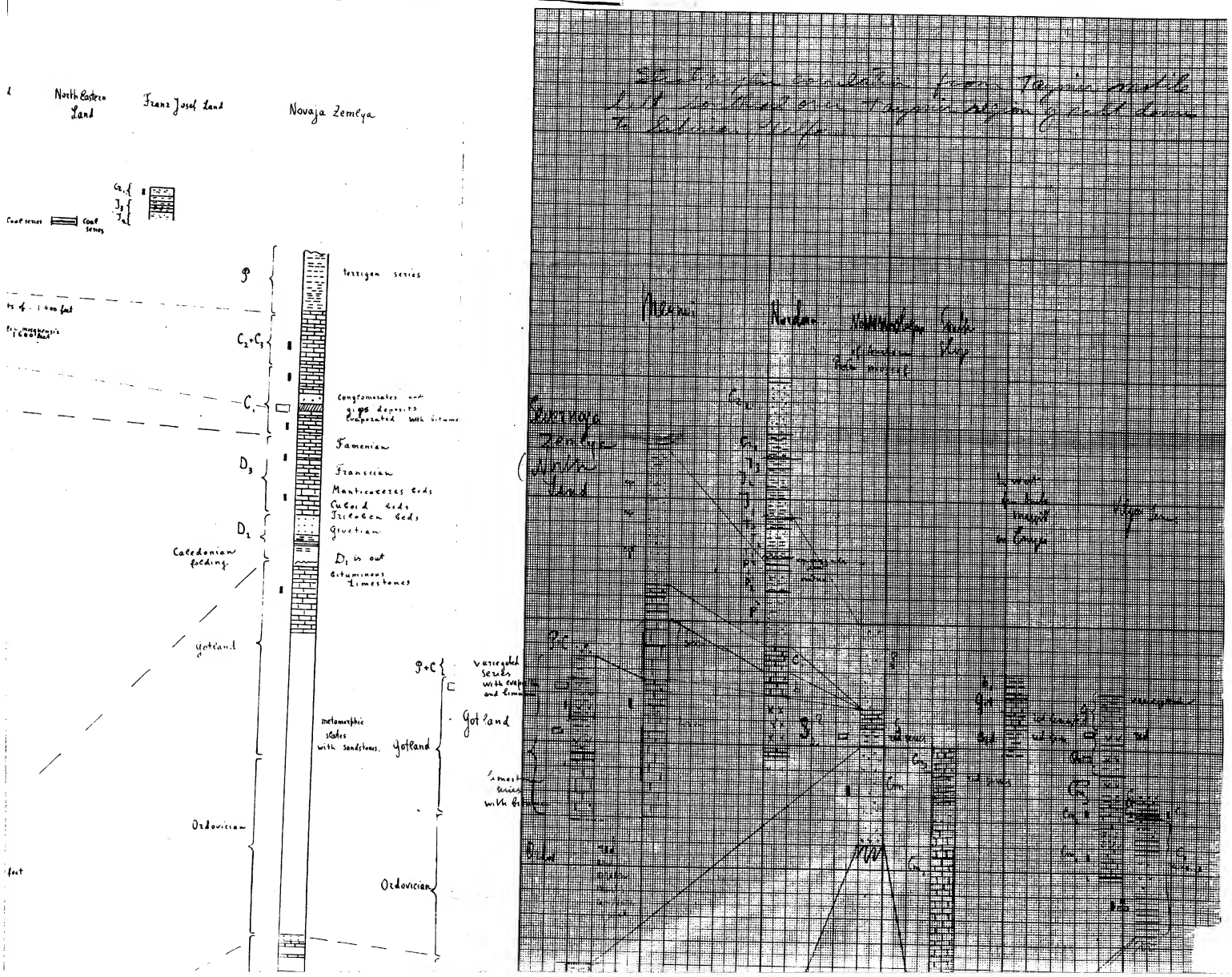
N : 118



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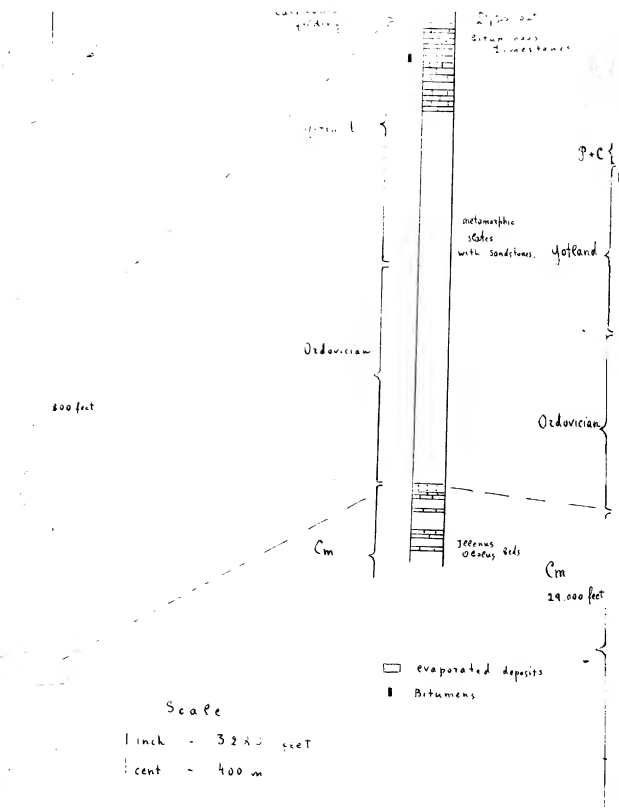

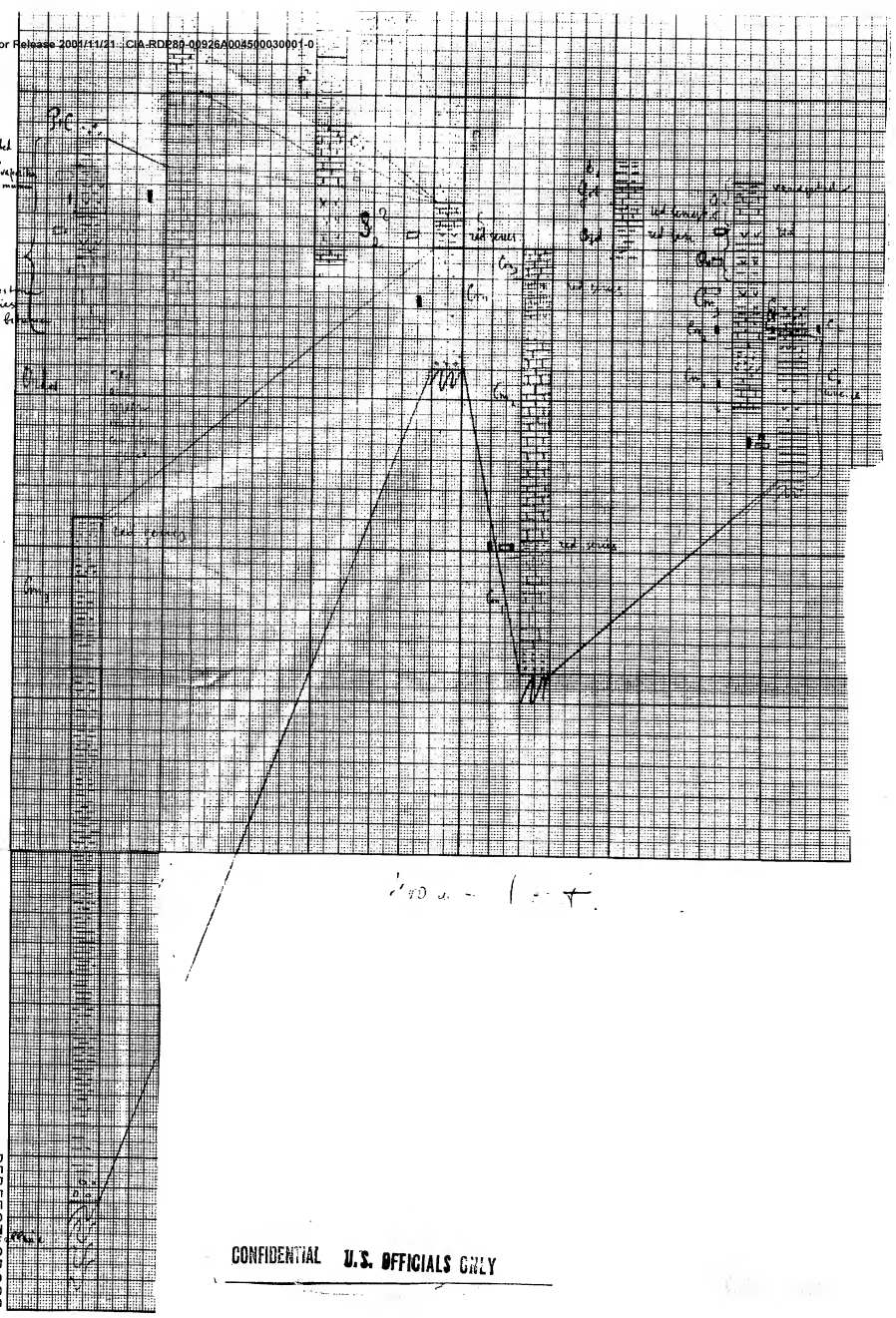

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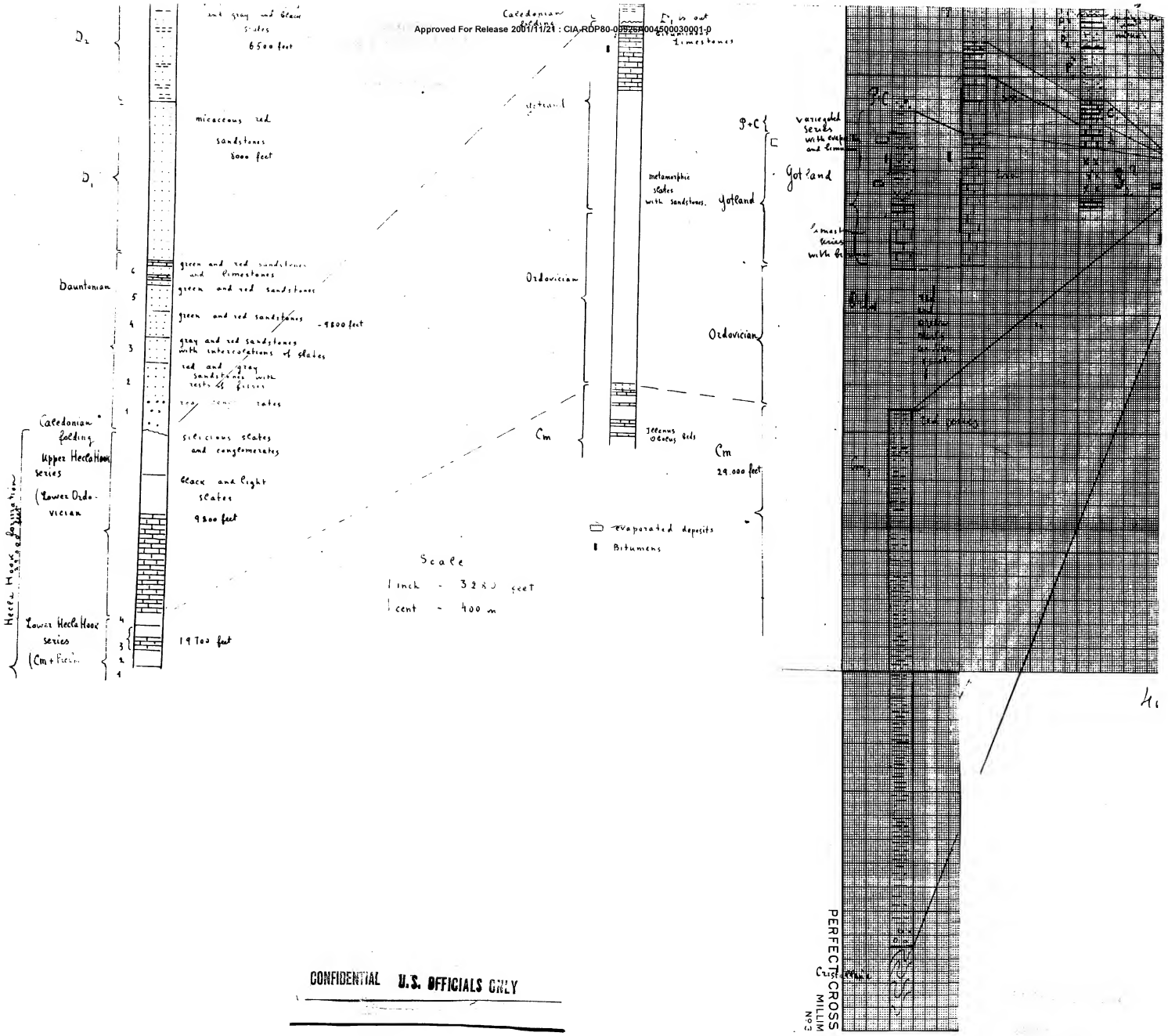

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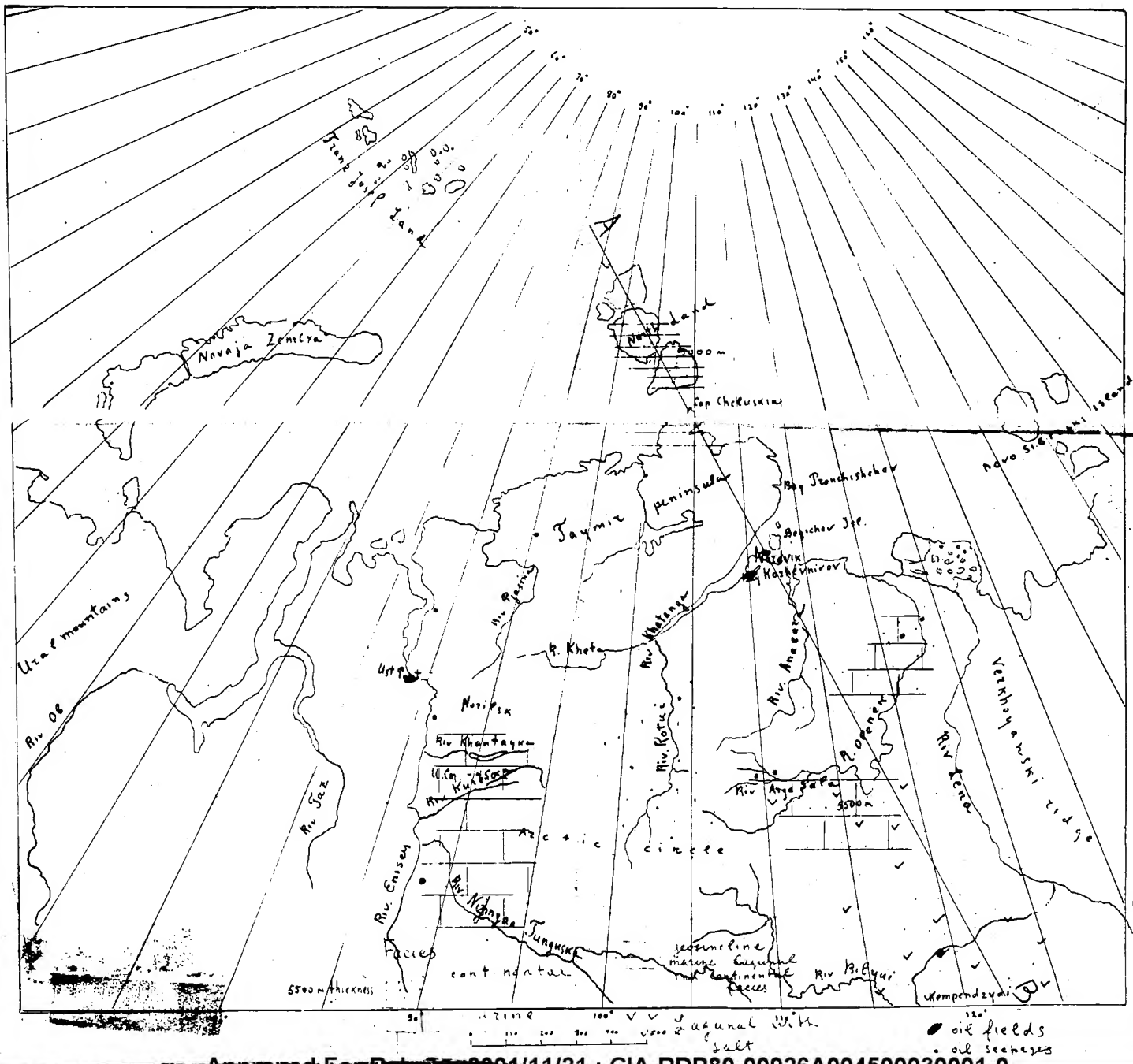
~~No. 120~~
~~No. 115~~
No 120

Lena Taymir Region

Cameron



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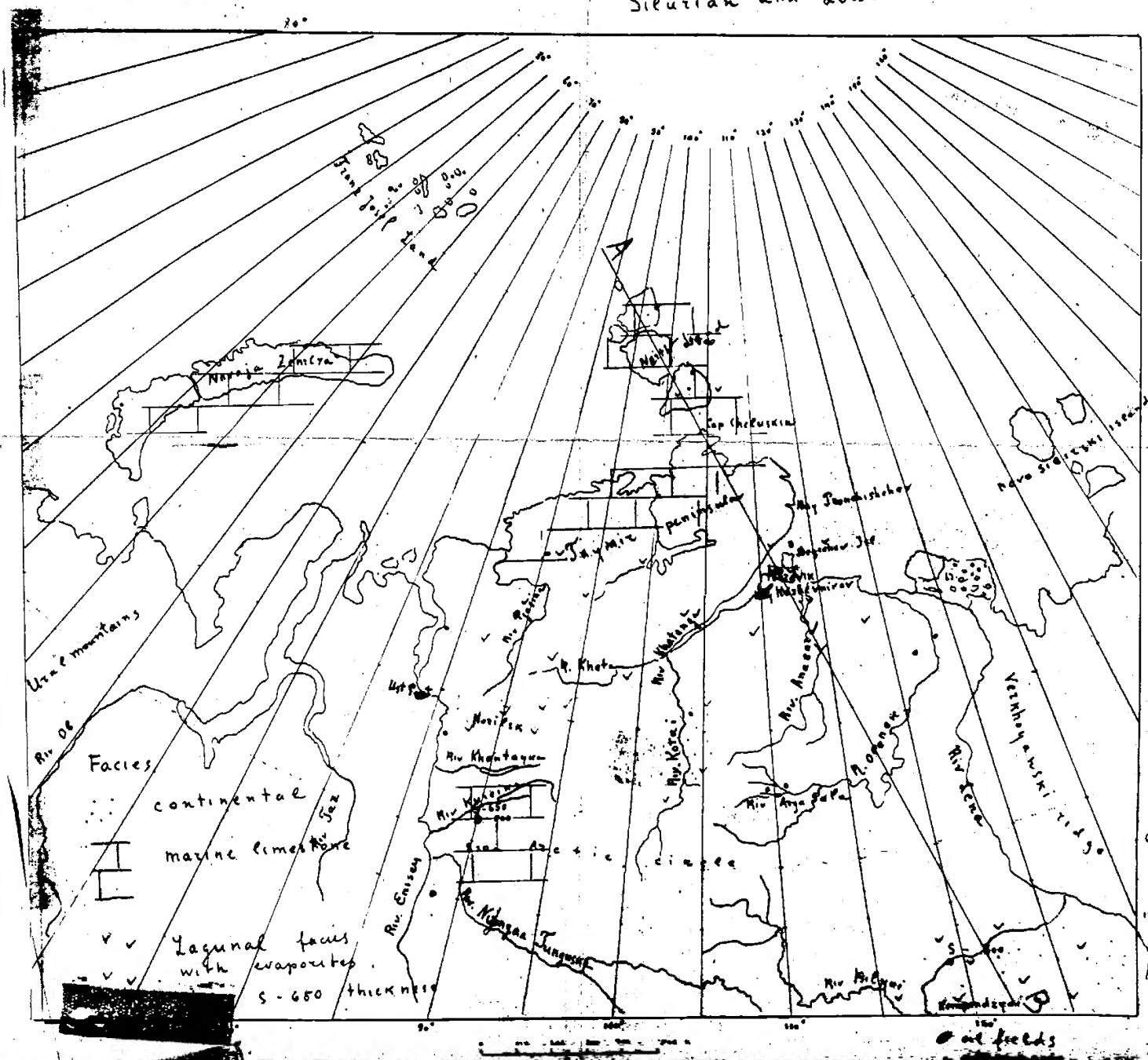
~~No 121~~ ~~No 115~~

Lena Taymir Region

No. 121

Silurian and Lower Devonian



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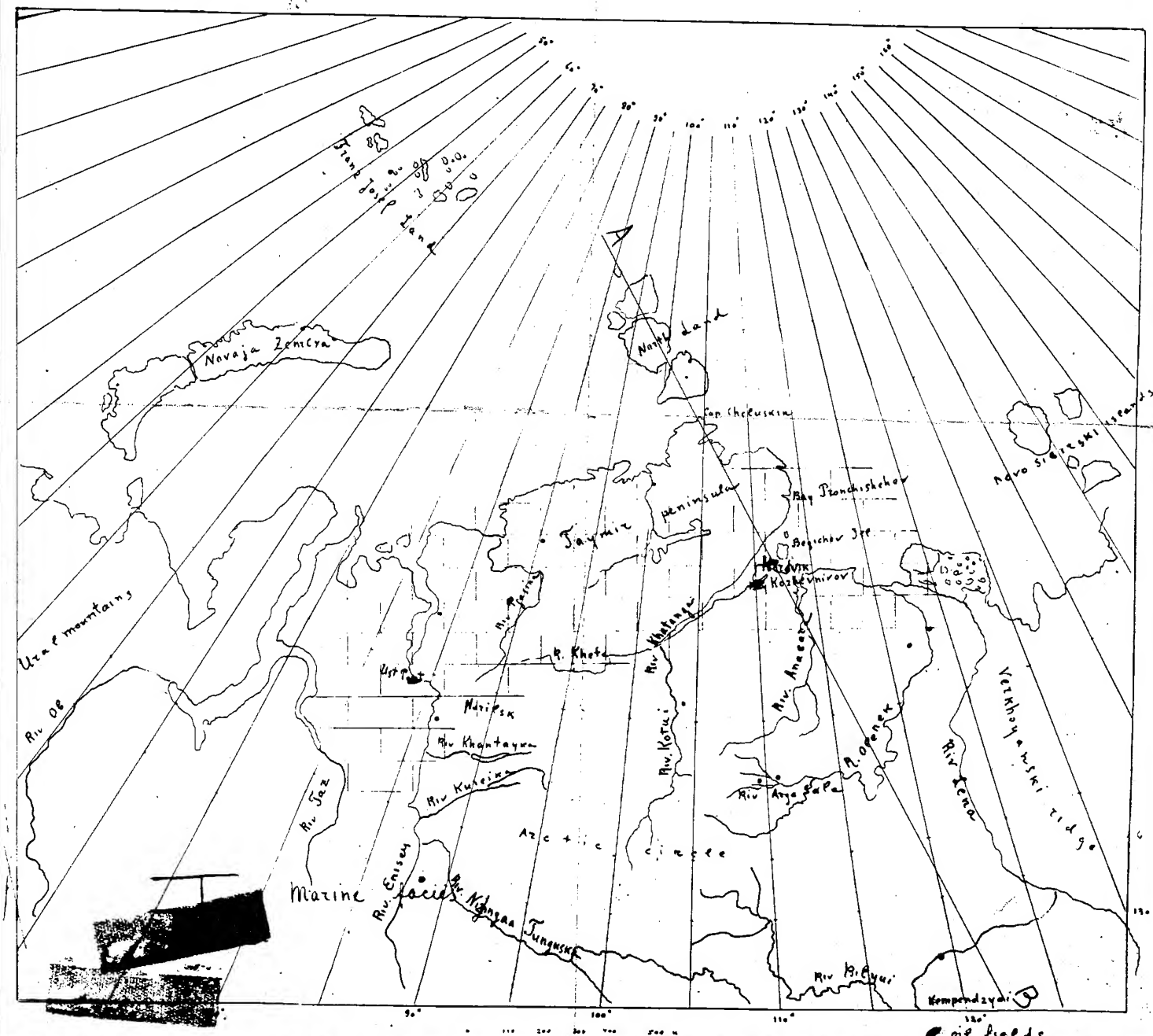
~~No. 122~~

~~No. 115~~

No. 122.

Lena Taymir Region

Upper Devonian and Carboniferous



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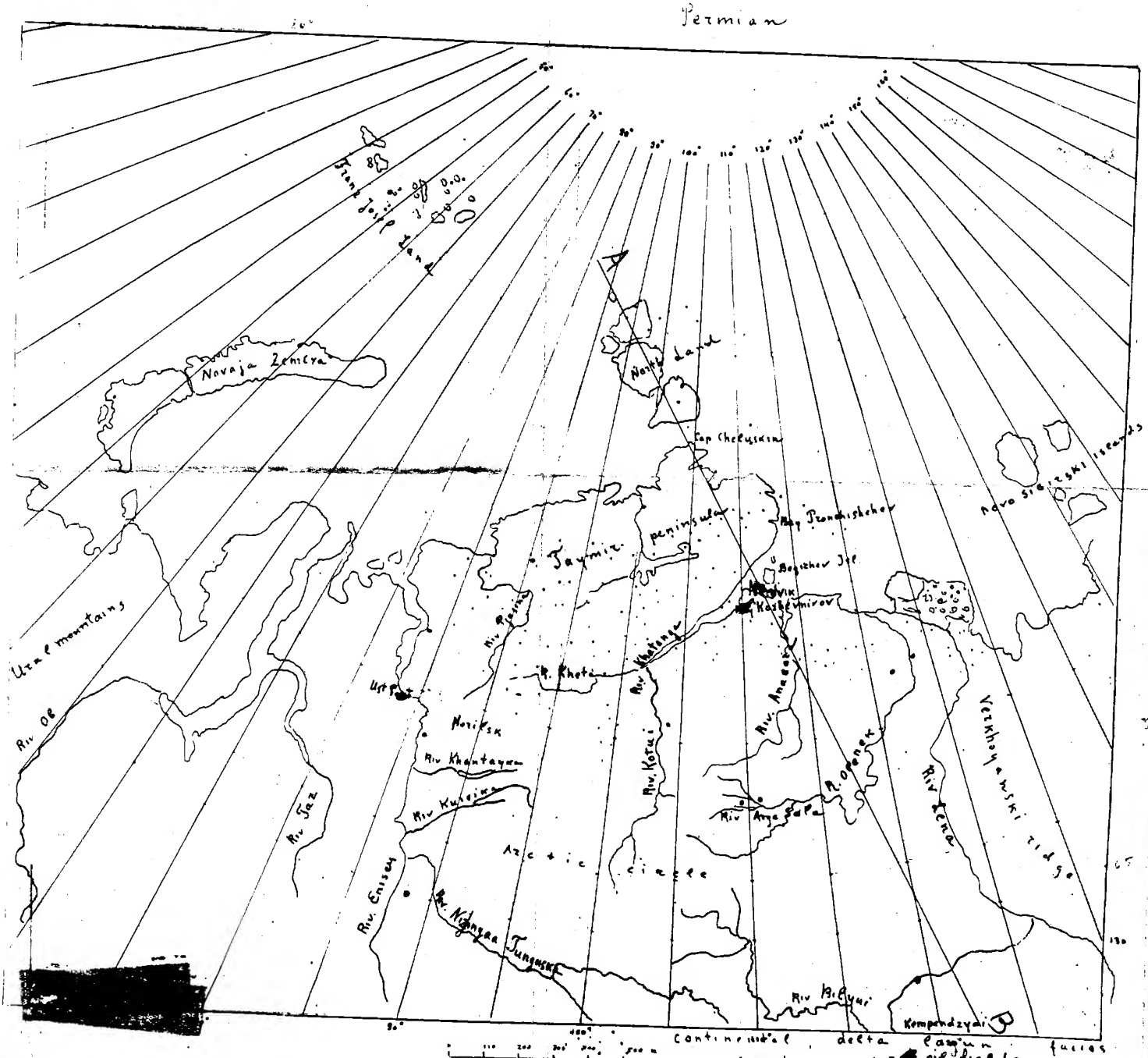
~~N: 123~~
~~N: 115~~
No. 123

Lena Tajmir Region

Permian



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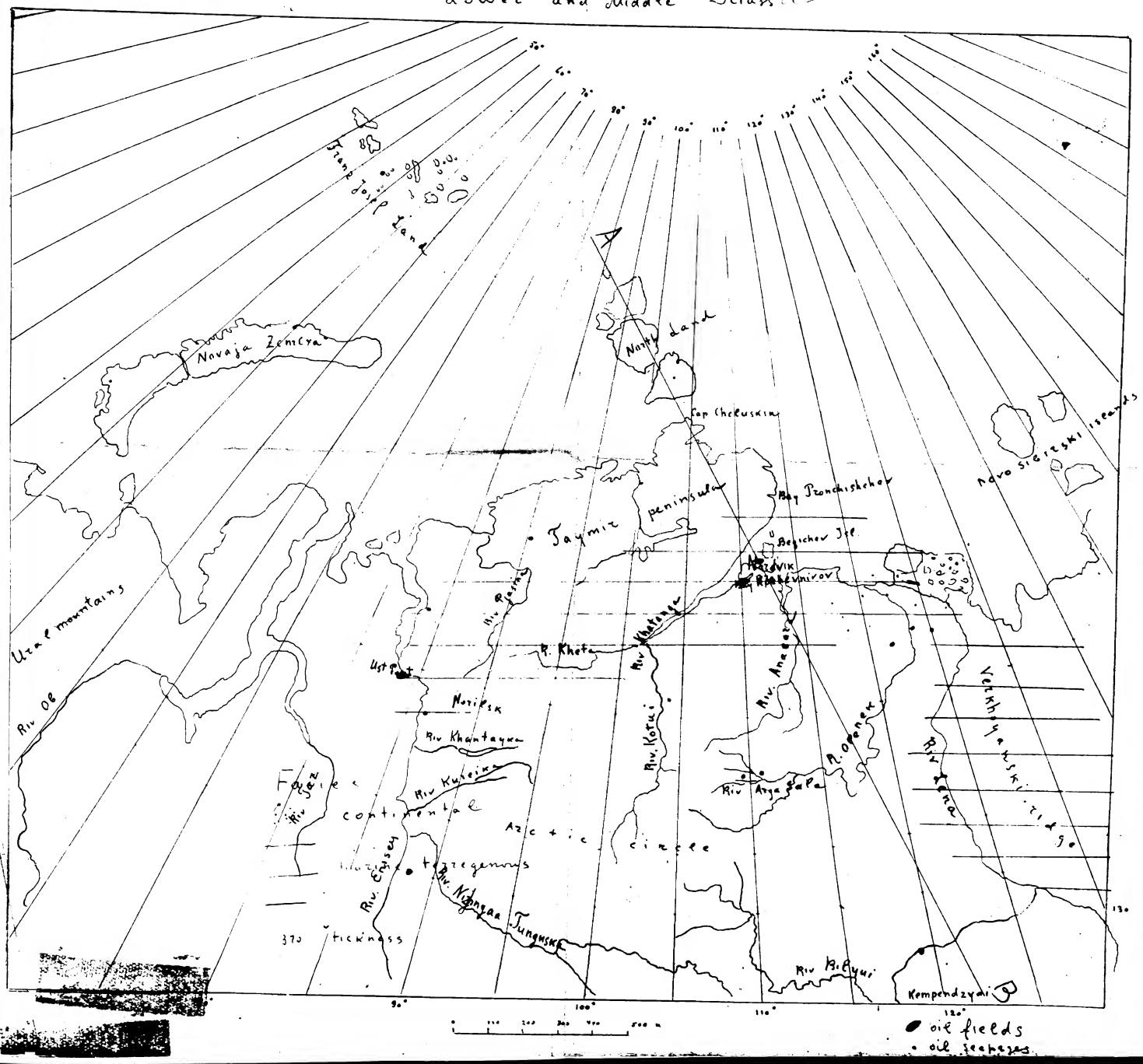
~~No. 124~~
~~No. 115~~
No. 124

Lena Taymir Region

Lower and Middle Triassic



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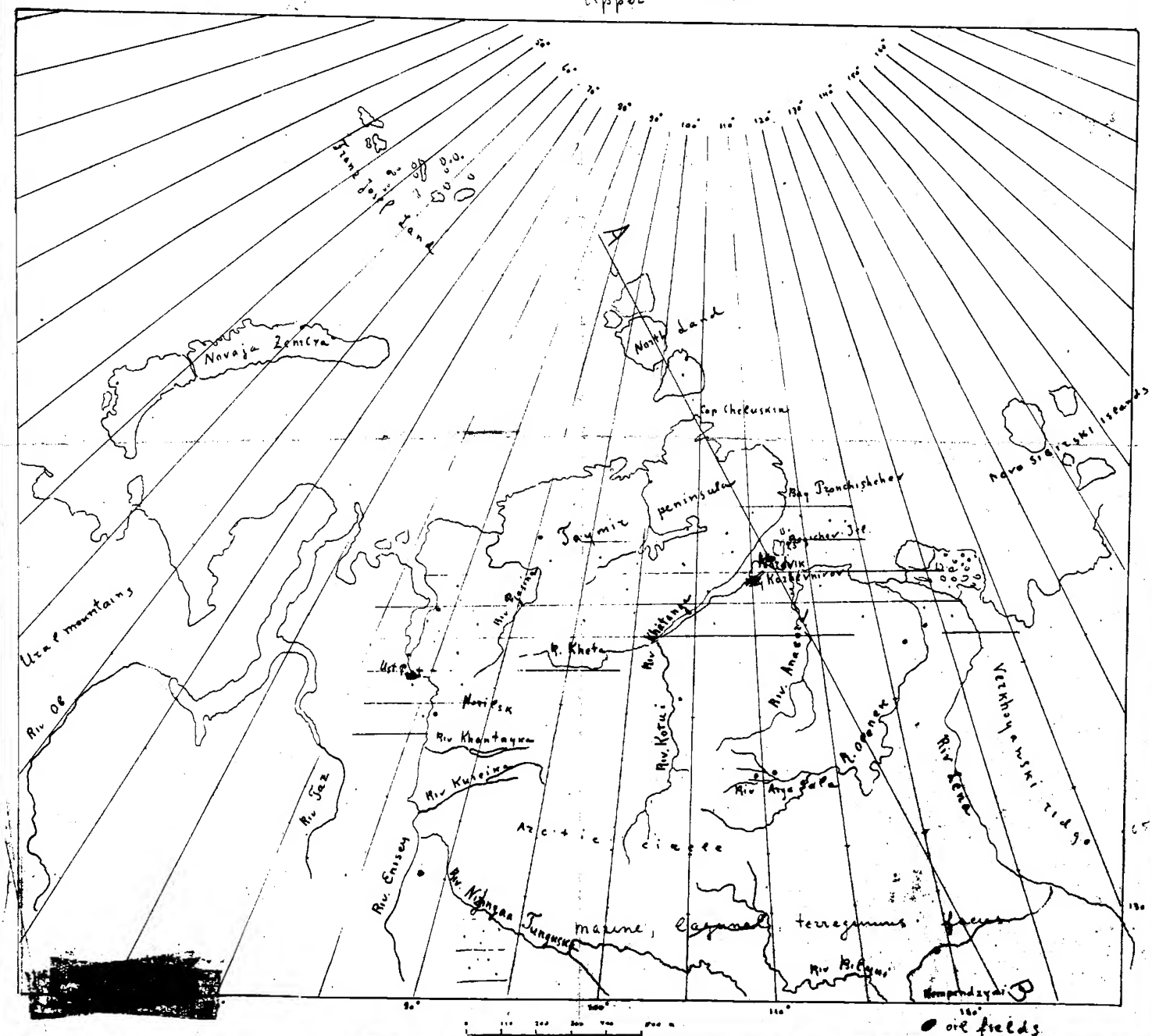
~~N° 125~~
~~N° 115~~
No. 125

Upper Triassic



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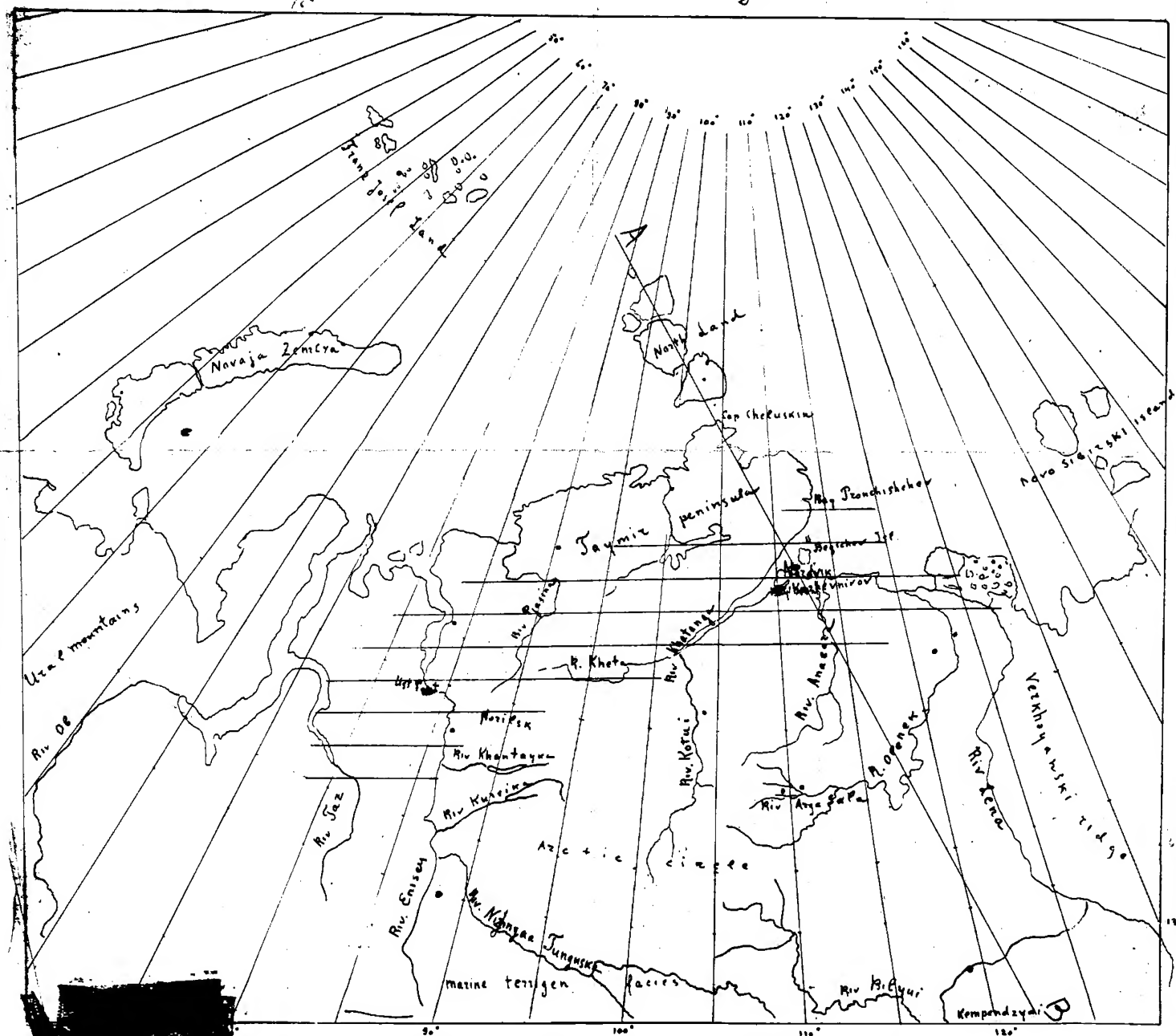
~~A: 115~~

~~N: 12~~

No. 126

Jurassic and Lower Cretaceous



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~~No. 115~~
No. 127

Upper Cretaceous

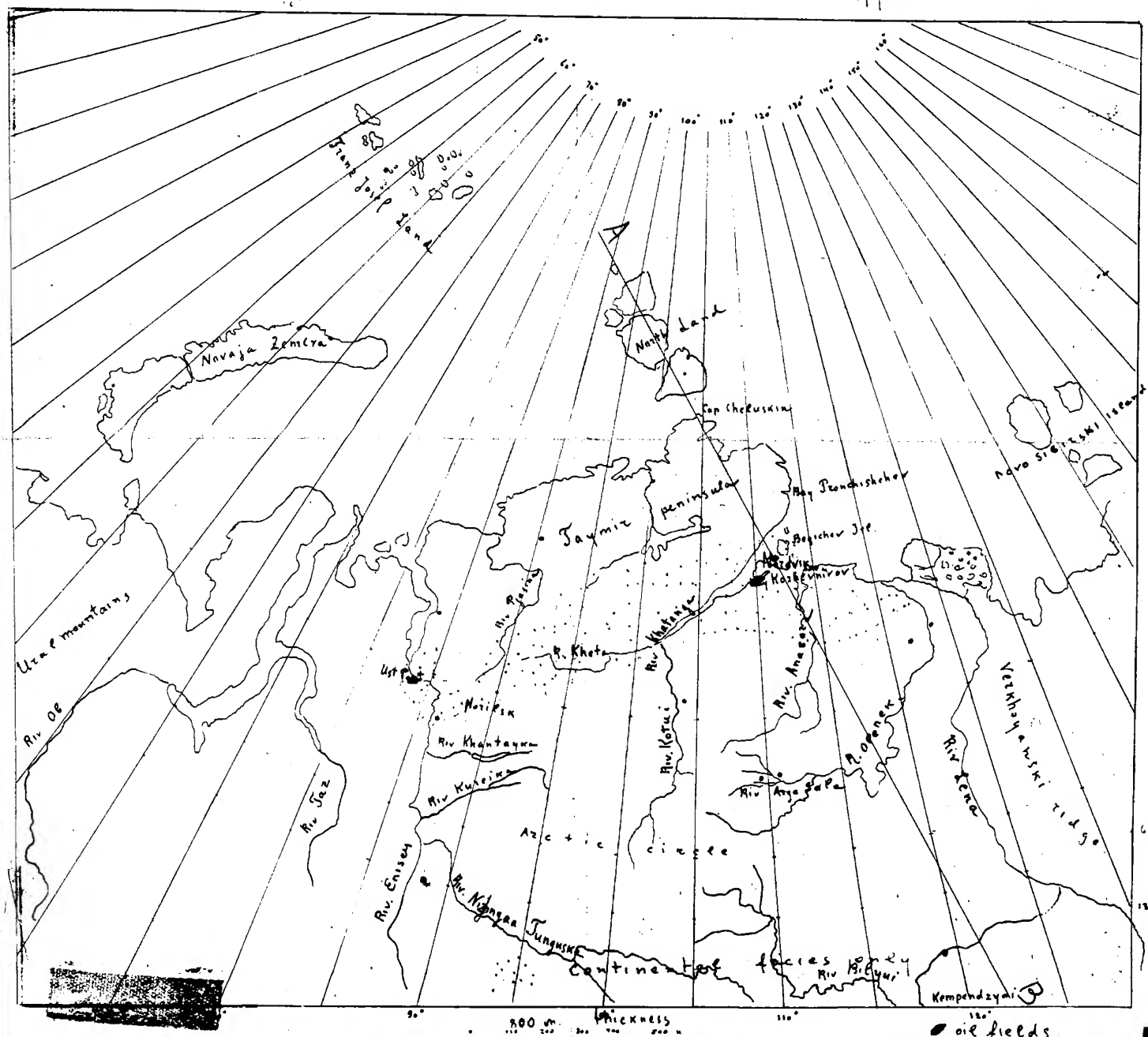

Diagram illustrating Oscillations in Taymir Depression N.126

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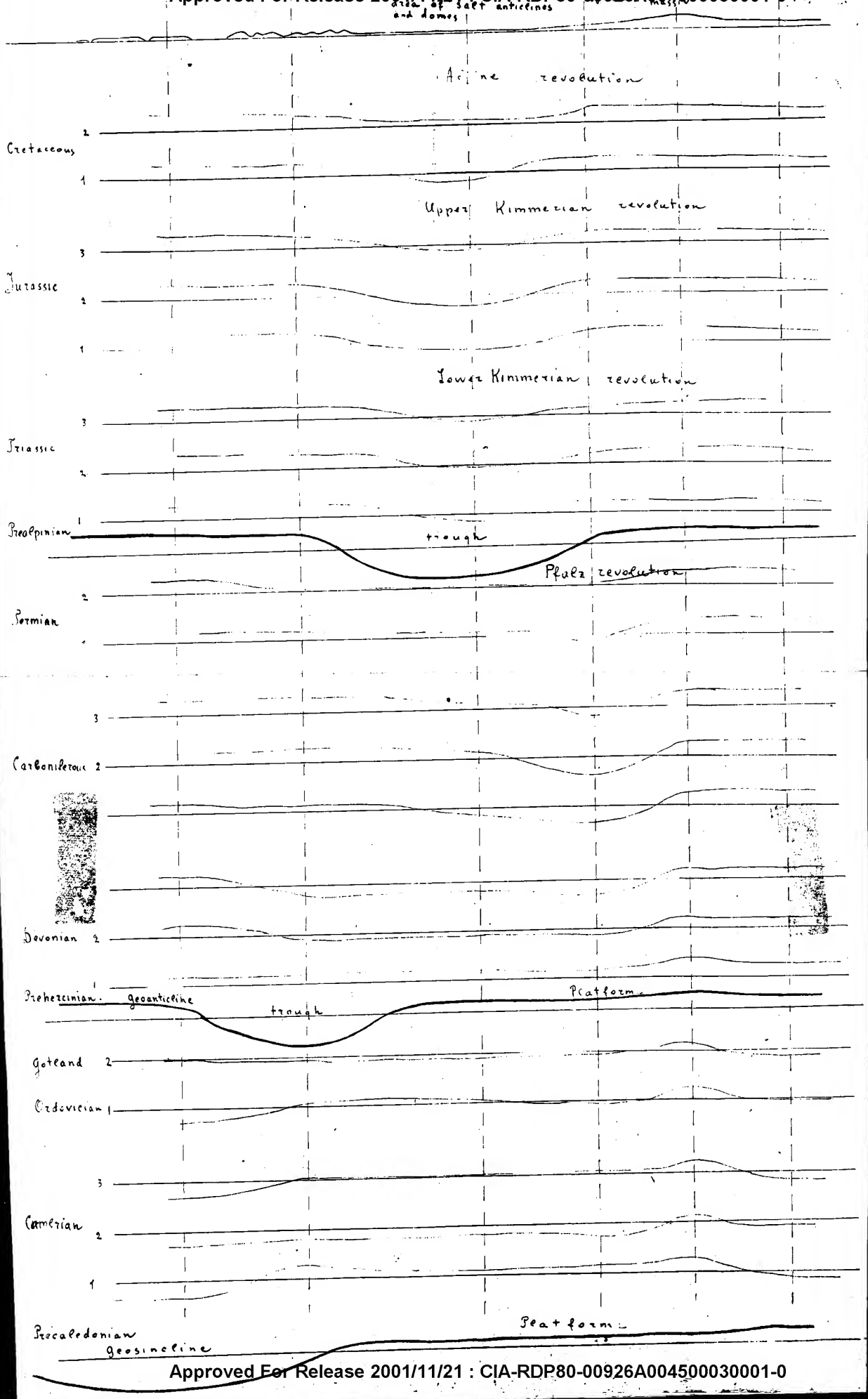

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129

ГЕОЛОГИЧЕСКАЯ КАРТА И КАРТА ПОЛЕЗНЫХ ИСКОПАЕМЫХ НОРДВИКСКОГО РАЙОНА.

General map Таймыр

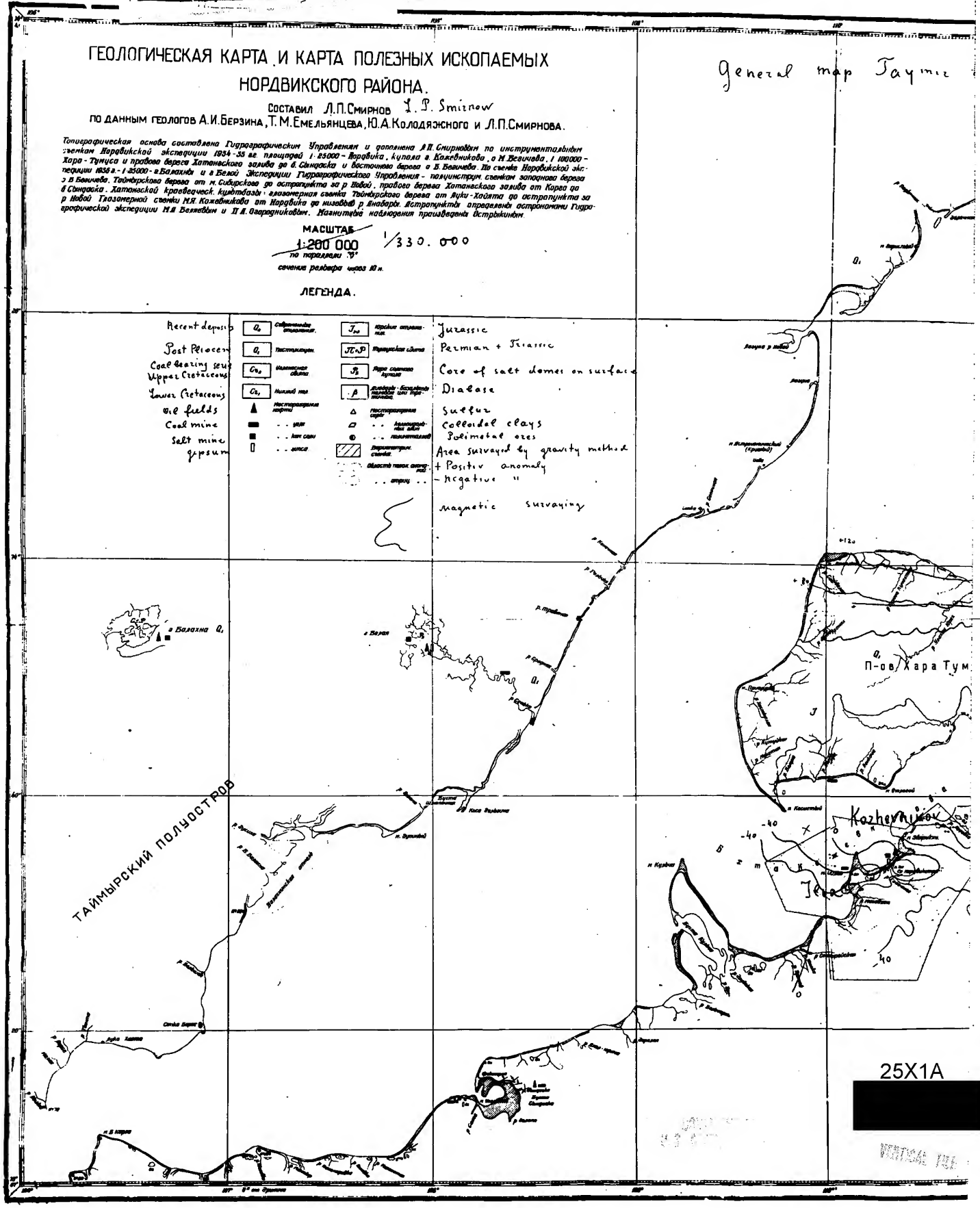
Составил Л.П.Смирнов L. P. Smirnow
по данным геологов А.И.Берзина, Т.М.Емельянцева, Ю.А.Колодяжного и Л.П.Смирнова.

Топографическая основа составлена Гидрографическим Управлением и дополнена Л.П. Смирновым по инструментальным съемкам Нордвикской экспедиции 1934-35 гг. площадей 1:25000 - Нордвика, купола г. Кожевникова, р. Н. Бегичева, 1:100000 - Хара-Тунуса и правого берега Хатанайского залива до г. Синдаска и восточного берега р. Б. Бегичева. По съемке Нордвикской экспедиции 1936 г. - 1:25000 - г. Балахны и г. Белой Экспедиции Гидрографического Управления - полуинструм. съемкам западного берега р. Бегичева, Таймырского берега от м. Сибирского до острова на р. Новой, правого берега Хатанайского залива от Корга до г. Синдаска. Хатанайской краеведческ. кущ-базы - глазомерная съемка Таймырского берега от Яуки-Хойта до острова на р. Новой. Глазомерная съемка М.Я. Кожевникова от Нордвика до низовьев р. Анабары. Астропункты определены астрономами Гидрографической экспедиции М.Я. Беляевым и П.А. Огородниковым. Магнитные наблюдения произведены Острыкиным.

МАСШТАБ ~~1:200 000~~ 1/330.000
по параллели 73°
сечение рельефа через 10 м.

ЛЕГЕНДА.

Recent deposits	Современные отложения.	Юрские отложения.	Jurassic
Post Pliocene	Постплиоцен.	Пермские и Триасовые слои	Permian + Triassic
Coal bearing seri	Угленосная свита	Ядра соляных куполов	Core of salt domes on surface
Upper Cretaceous	Меловые свиты		Diabase
Lower Cretaceous	Нижний мел	Диабазы - Базальты пермские или триасовые.	Sulfur
Oil fields	Нефтеразведочные скважины	Пестроцветные серы	Colloidal clays
Coal mine	. . уголь	. . Коллоидные глины	Polimetal ores
Salt mine	. . соли	. . полиметаллы	Area surveyed by gravity method
gypsum	. . гипсы	Гравиметрич. съемка.	+ Positiv anomaly
		Области полож. аномалий.	- negative "
		. . отриц. . .	magnetic surveying



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N: 129

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General map Гаумис region

ЕМЫХ

1.Смирнова.

инструментальным
Бегичева. 1 100000 –
ике Нордвикской экс
кам западного берега
нива от Карго до
до астропункта за
ны астрономами Гидро
инным

Triassic

alt domes on surface

clays
e ores
d by gravity method
anomaly
"
surveying

Nordvik

П-ов Хара Тумус

Бухта Нордвик

Kozhevnikov

О. Большой Бегичев

25X1A

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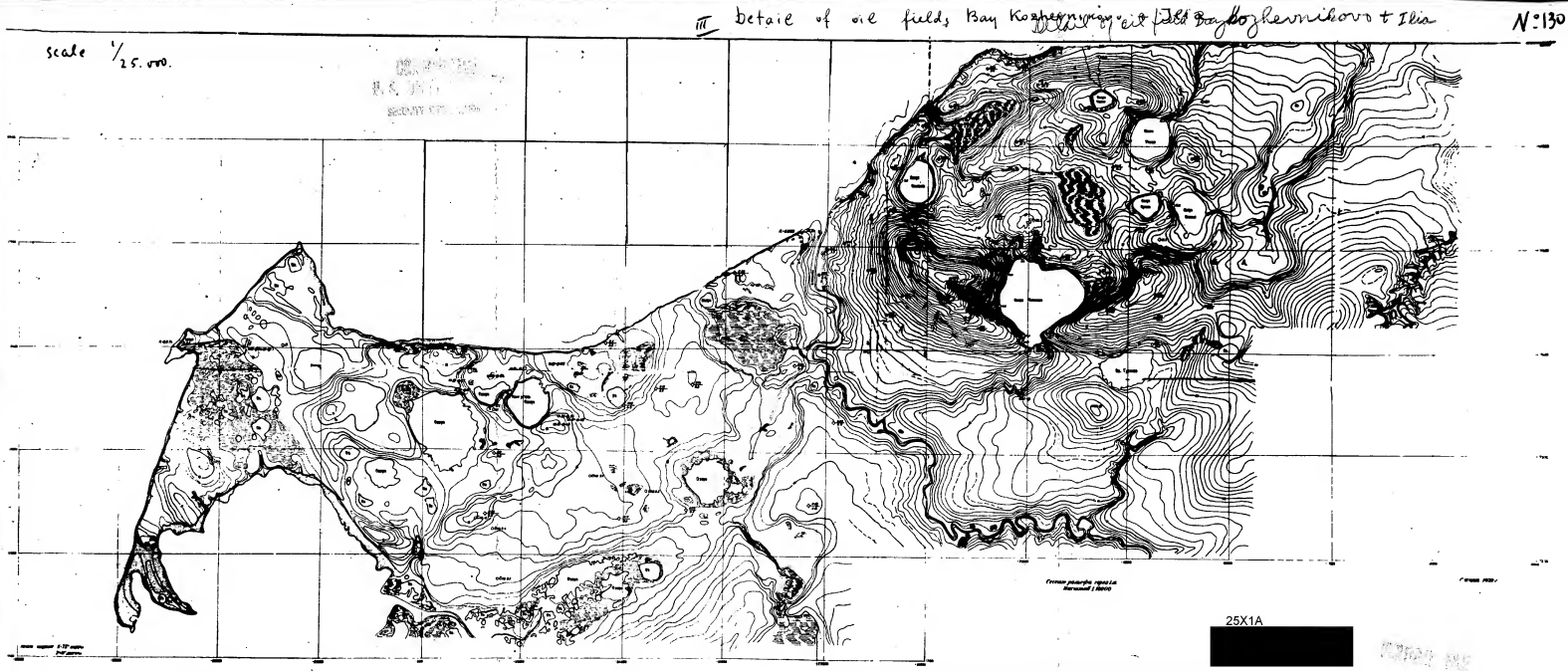
III Detail of oil fields, Bay Kozhevnikovo + Ilia

N° 130

scale 1/25.000.



25X1A

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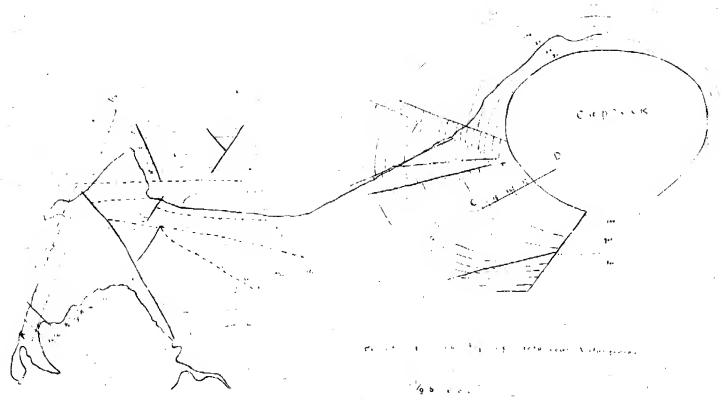
[redacted]

Oil fields Jera and Kozhevnikov



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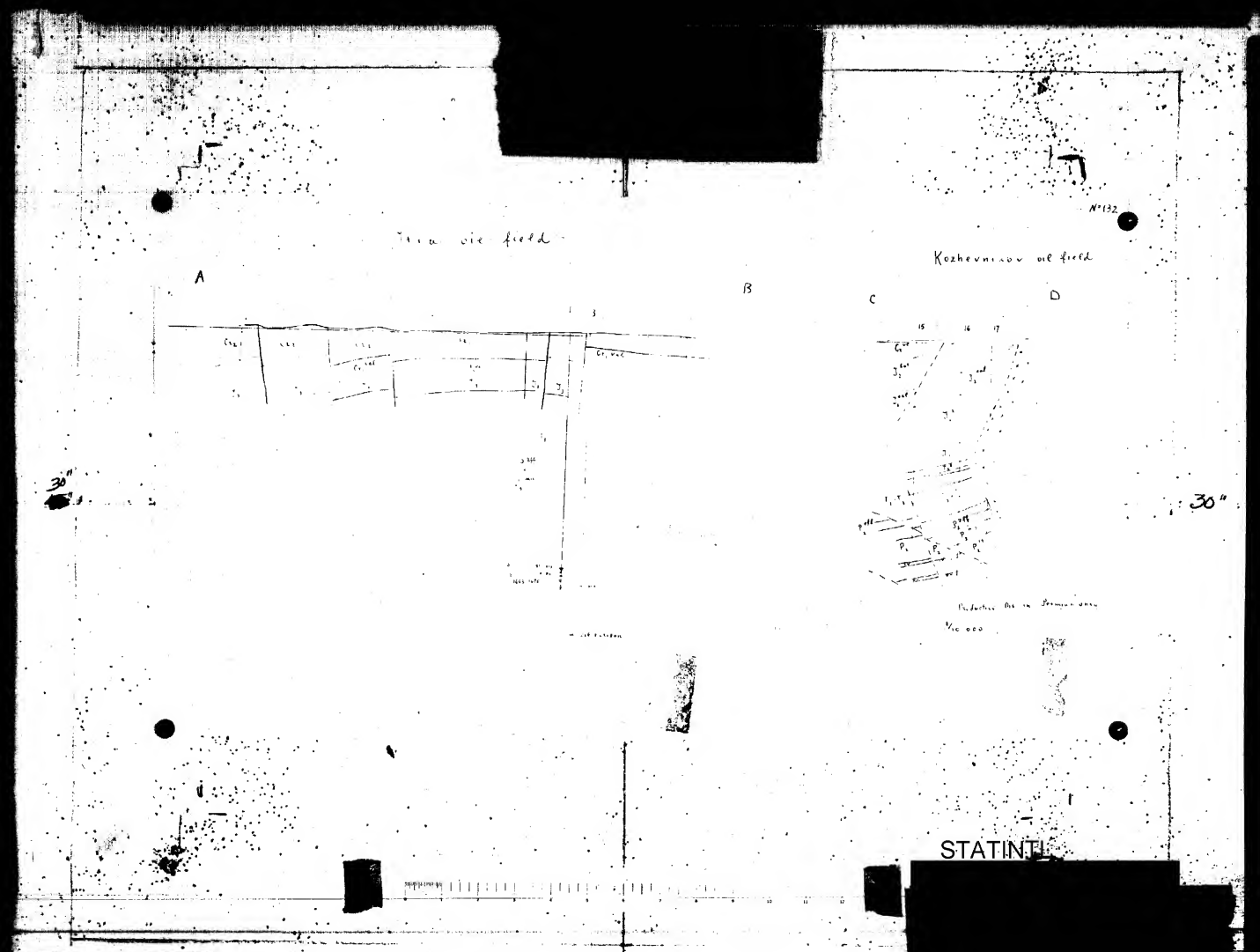

STATINTL

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Nordvik oil field

N: 133

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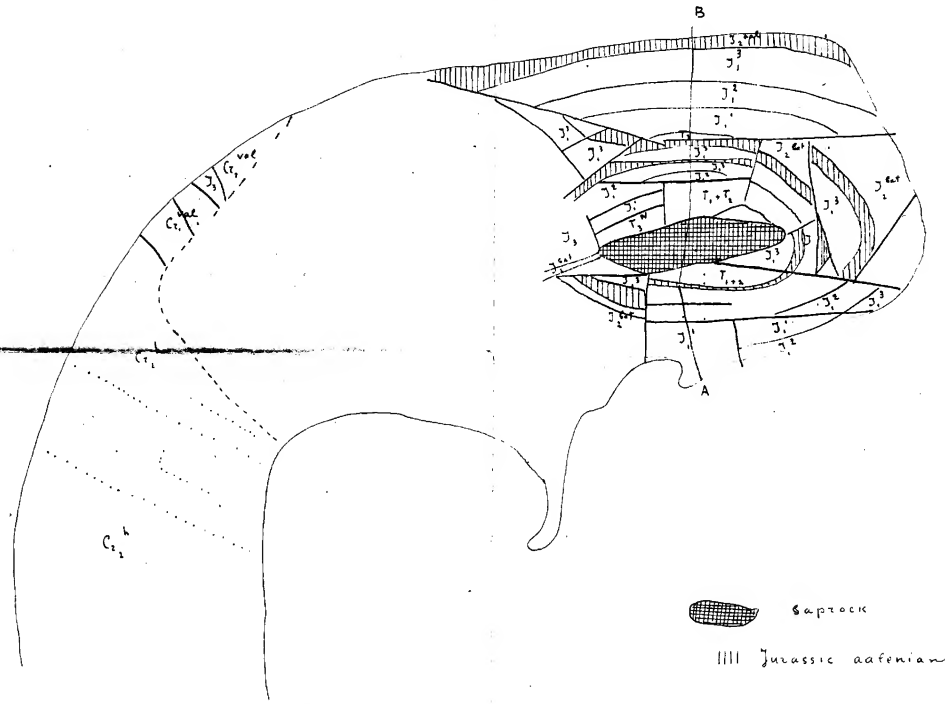

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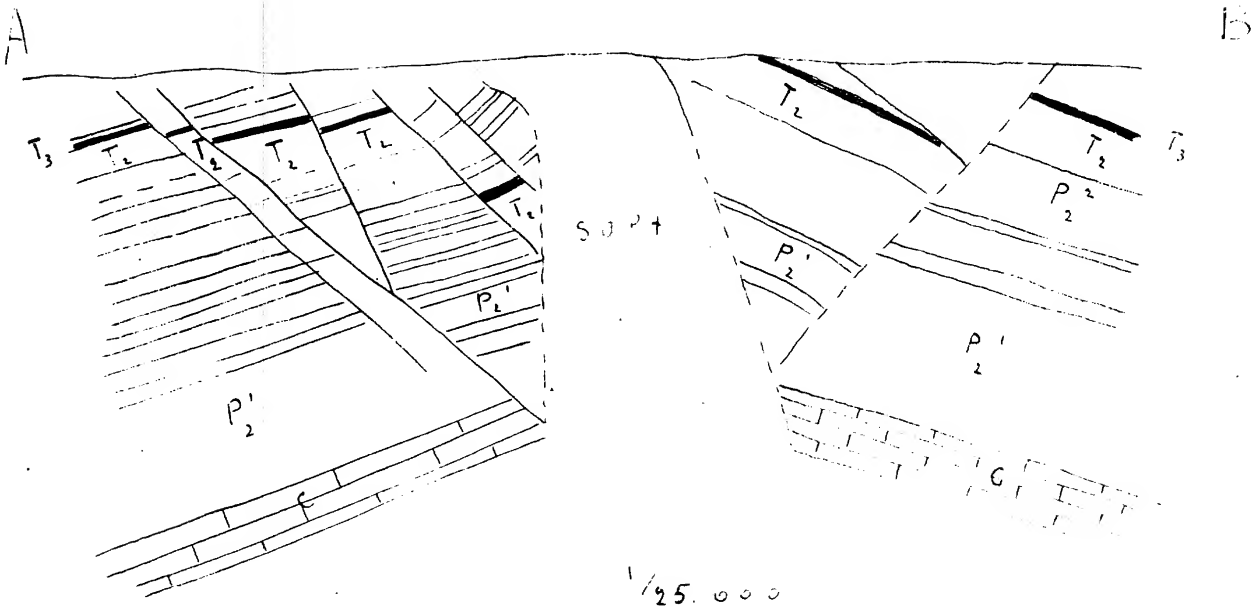
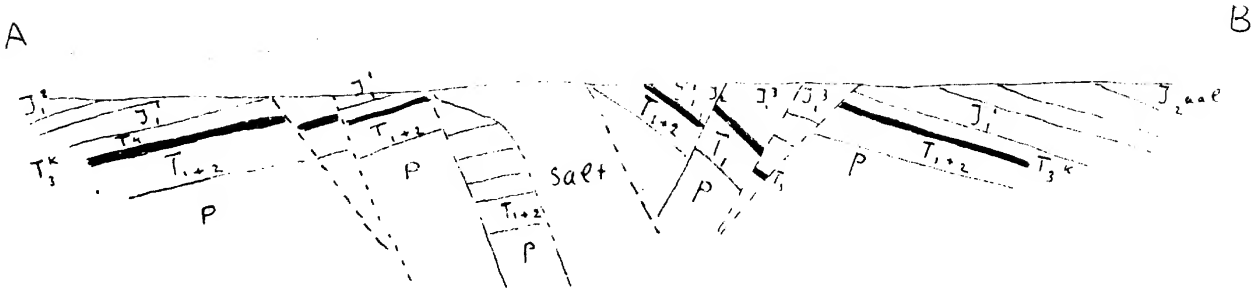
N° 134

Nordvik



1/25.000



1/50.000

— oil horizon

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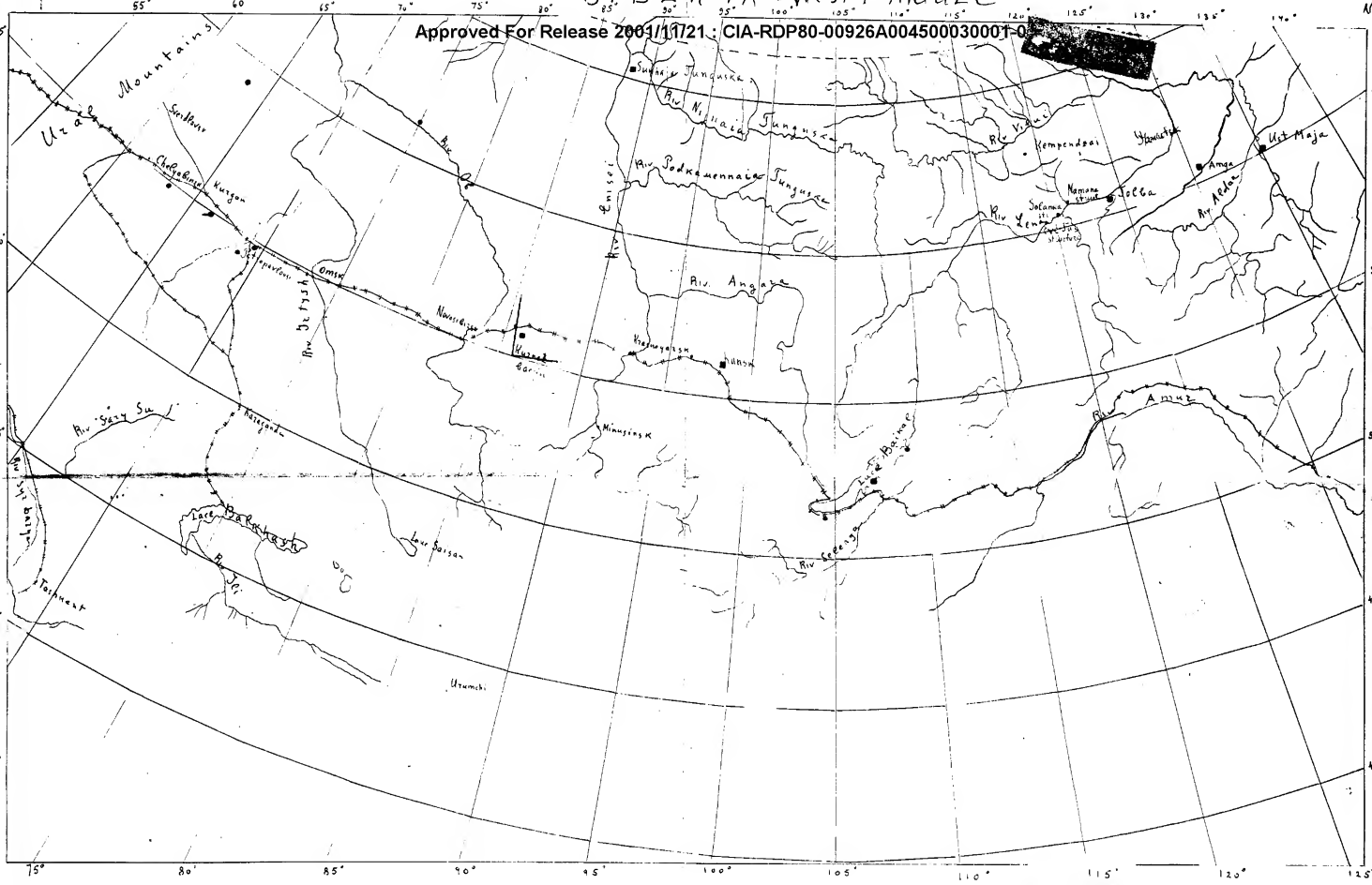
SIBERIA - West + Middle

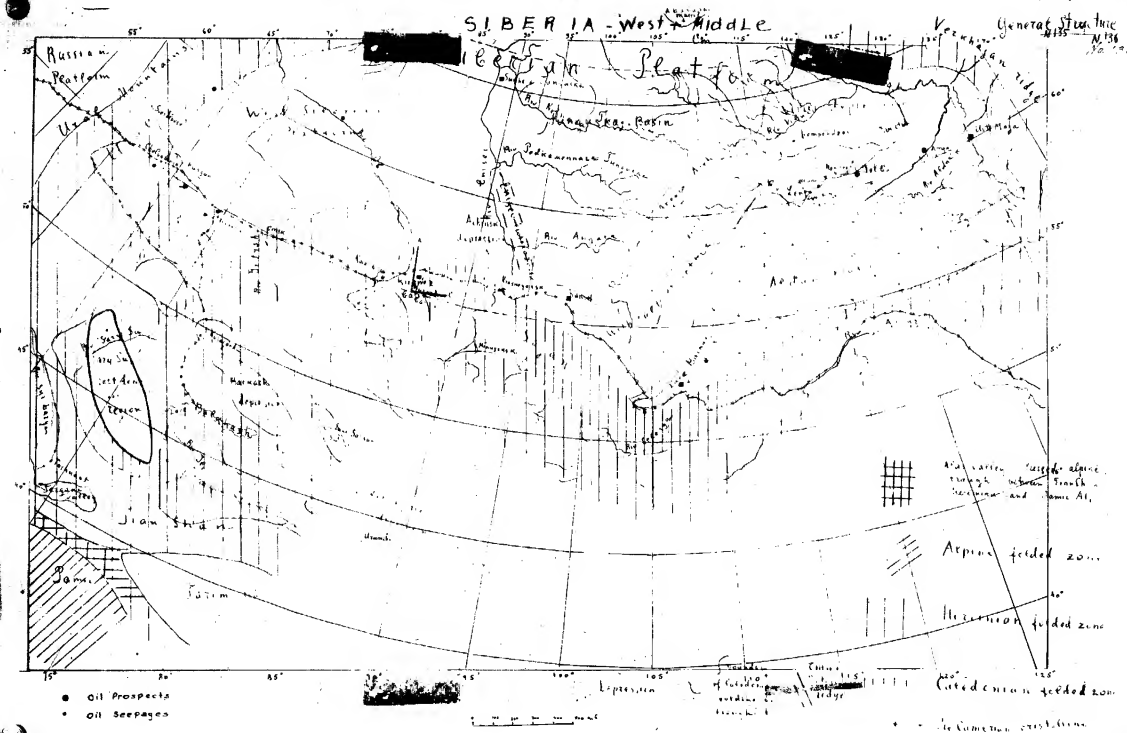
N135



• Oil Prospects

• Oil Seepages

[redacted]



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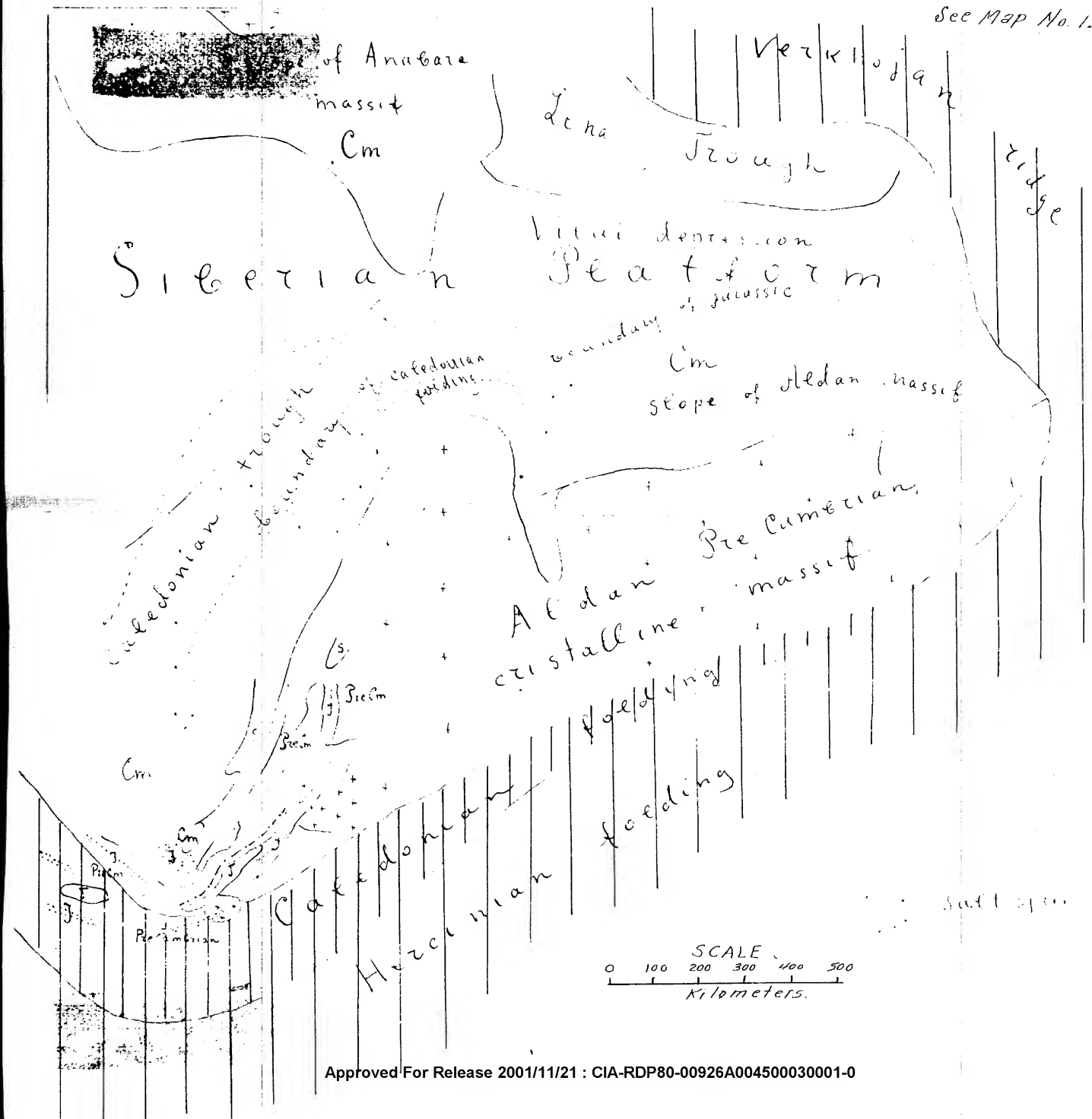
Cambrian basin of Siberia N°137

See Map No. 136



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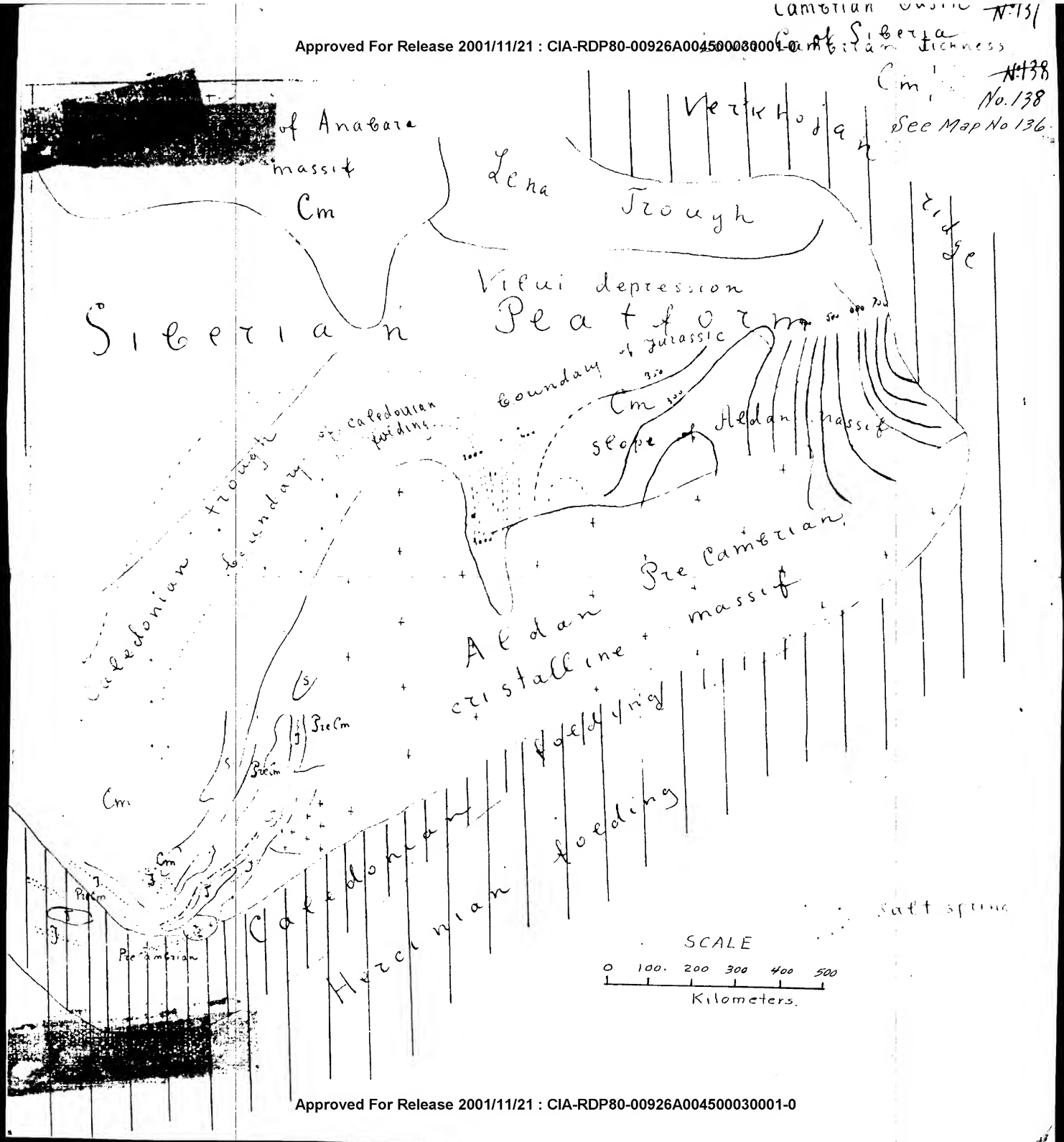
Cambrian basic of Siberia
Cambrian thickness
~~N.137~~
~~N.138~~
No. 138
See Map No 136



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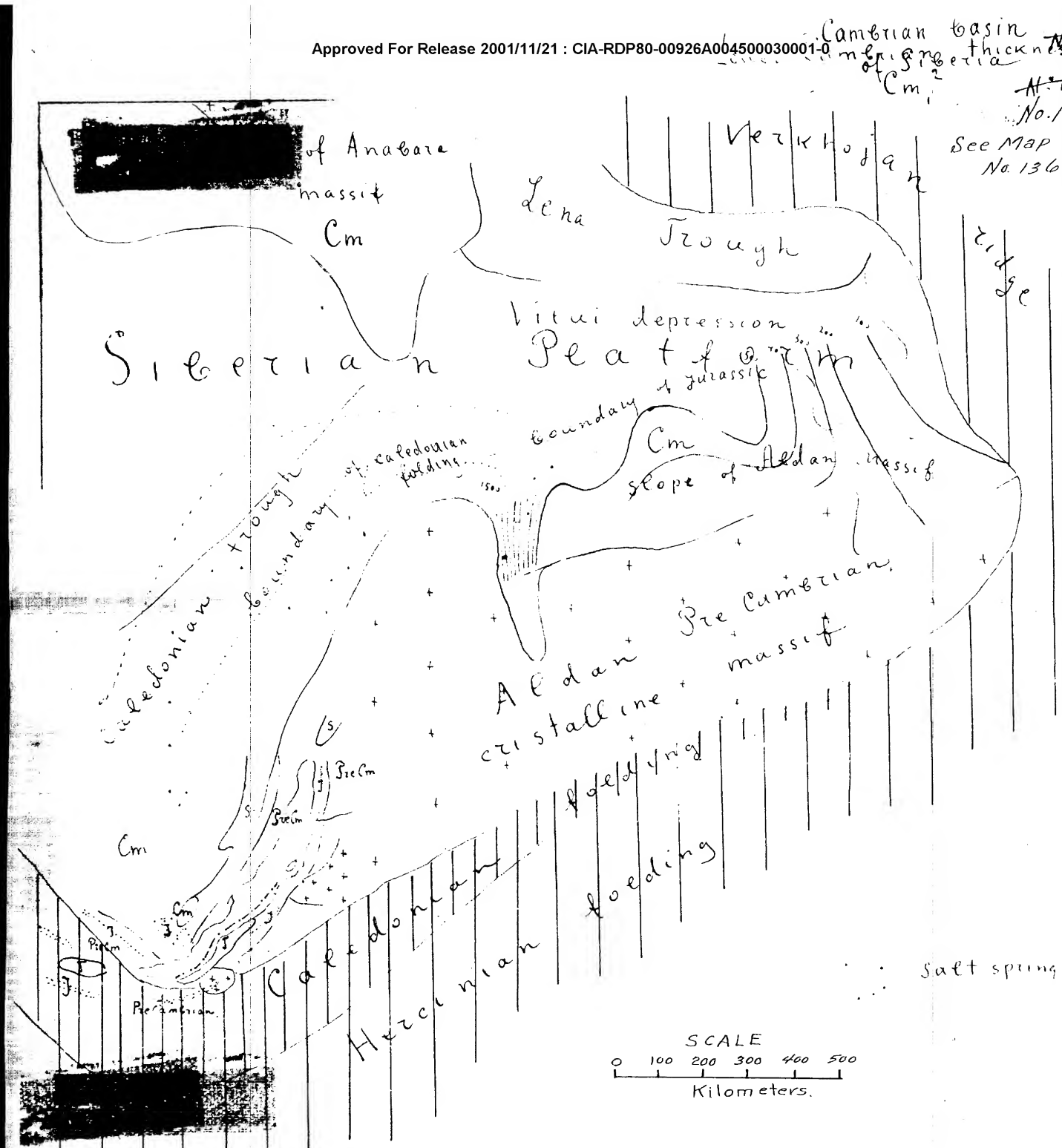

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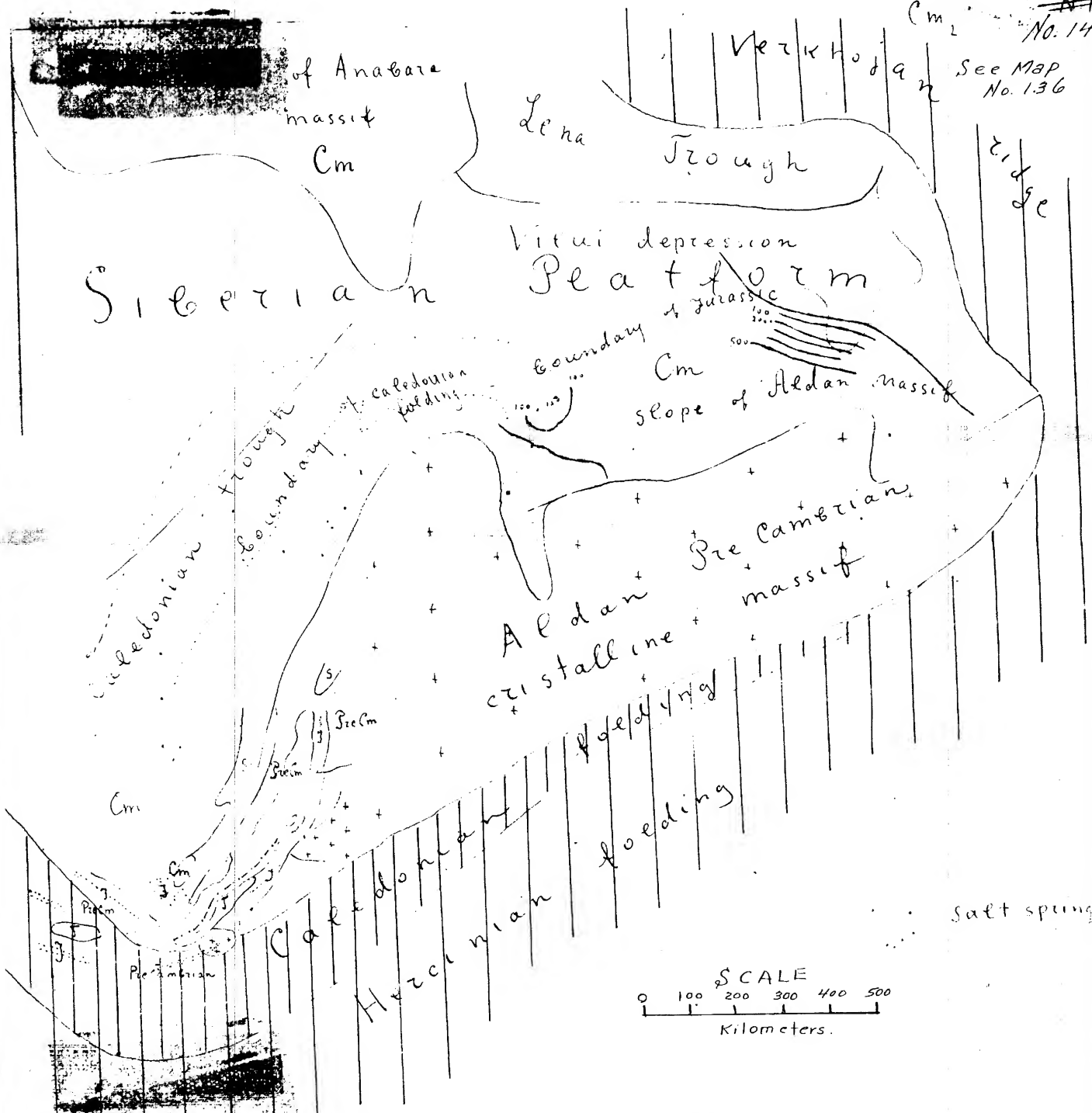
Cambrian basin ~~No. 137~~

N. Cambrian Siberian ~~Craton~~

Cm_2 ~~No. 140~~ No. 140



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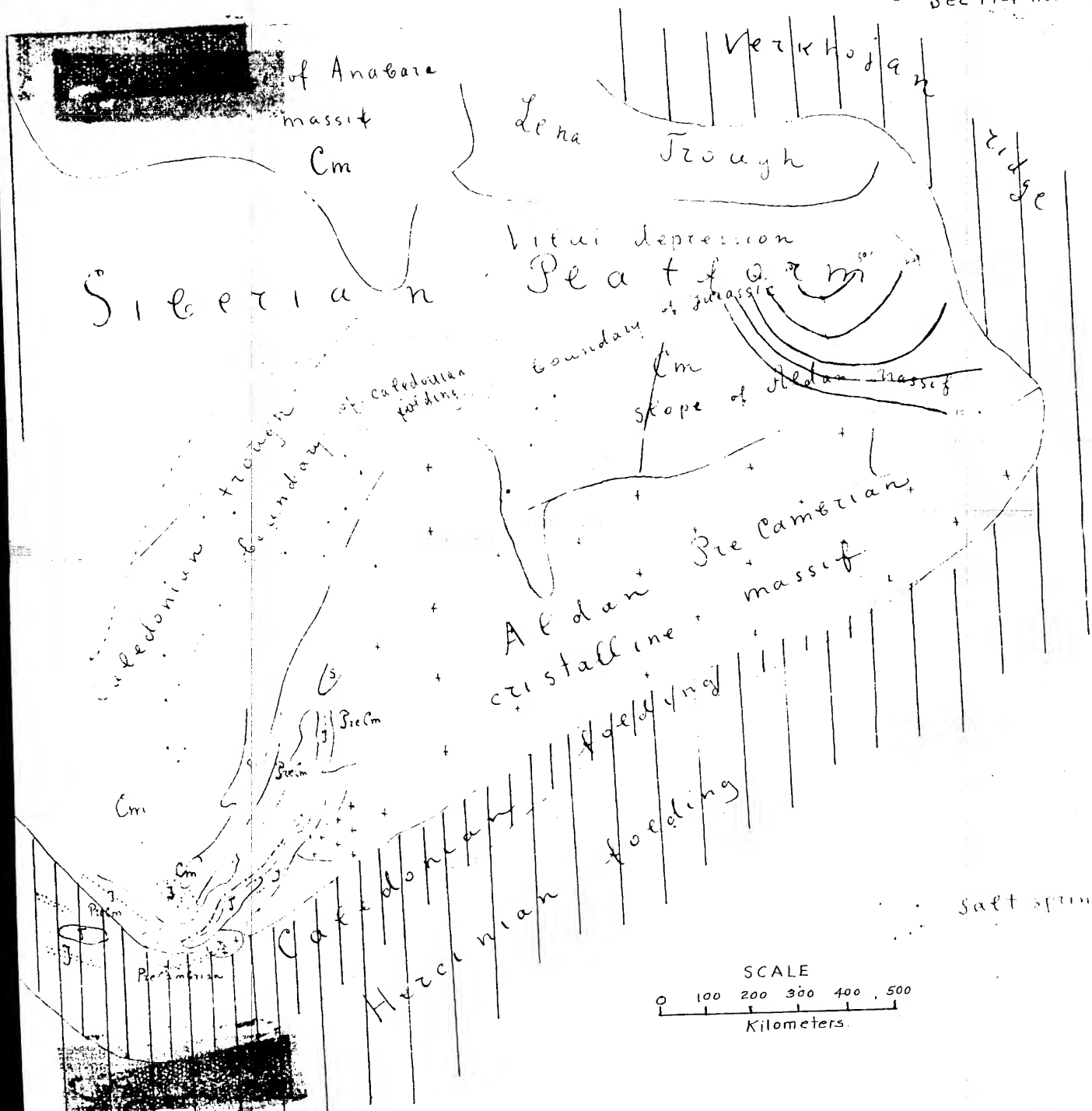
Cambrian basin of Siberia No 141

See Map No. 136



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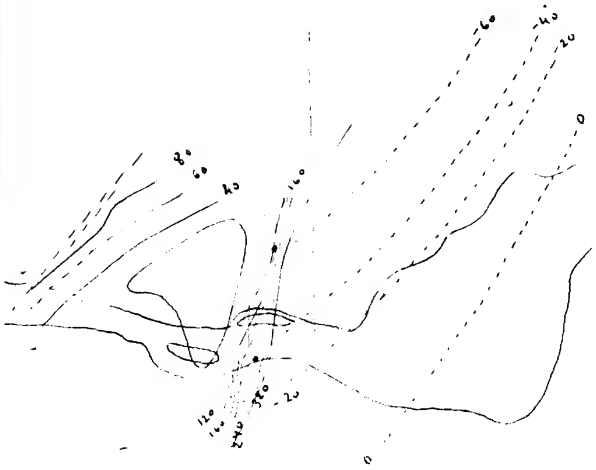
N 14

Eve Jas structure
(Nr Nerunta)



2 0 2 4 km

• salt springs

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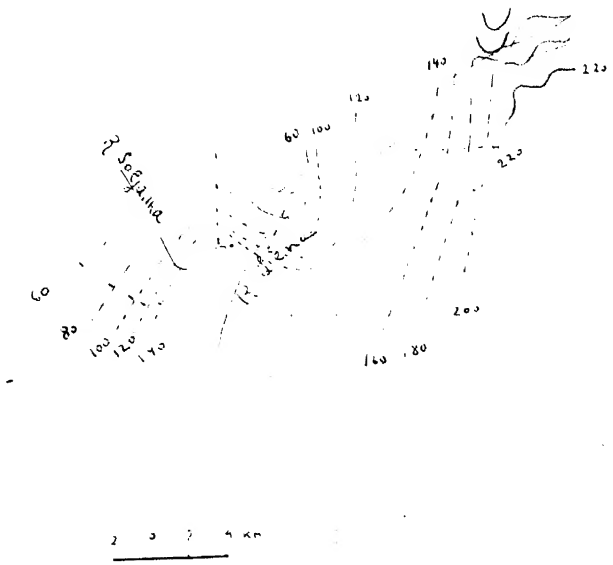
Solianka structure



Namana structure

Surface of Chara series lower Cambrian

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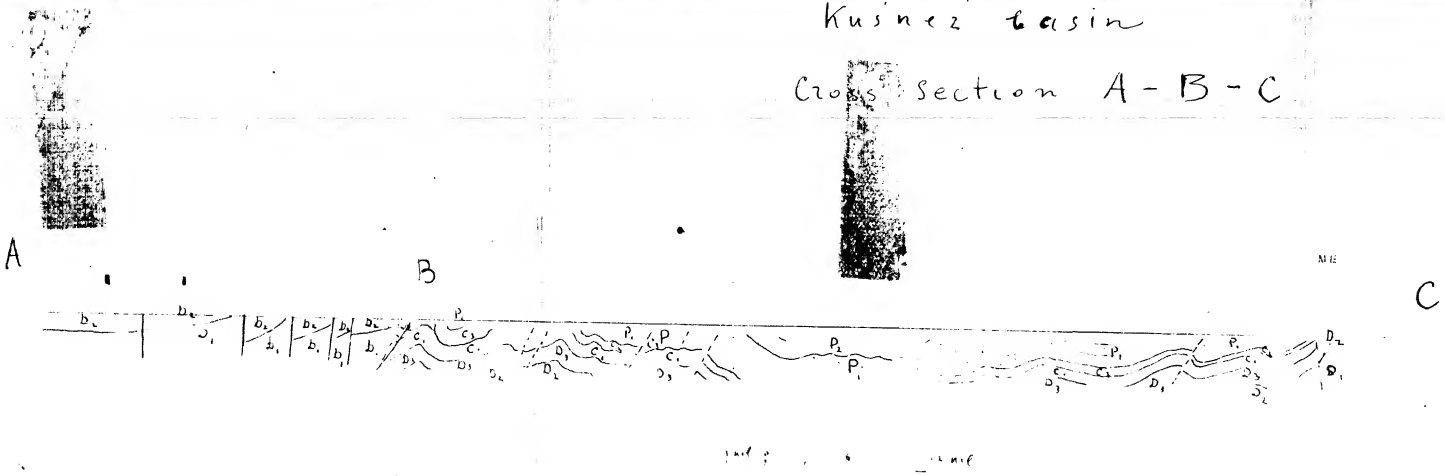
N144

Kusnez basin

Cross Section A - B - C



oil seepages

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SARY SU Suet domes in Prospection N° 145

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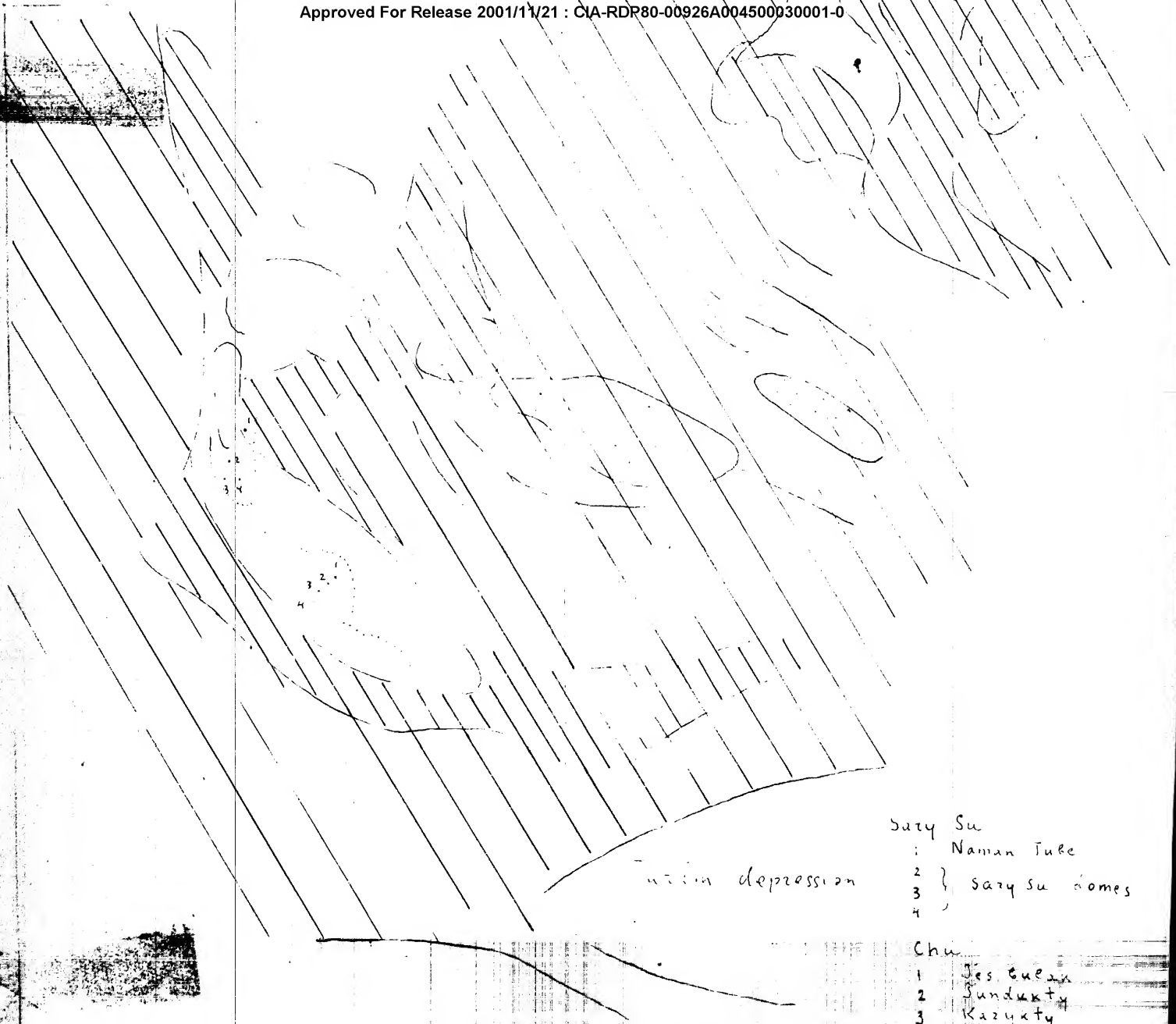

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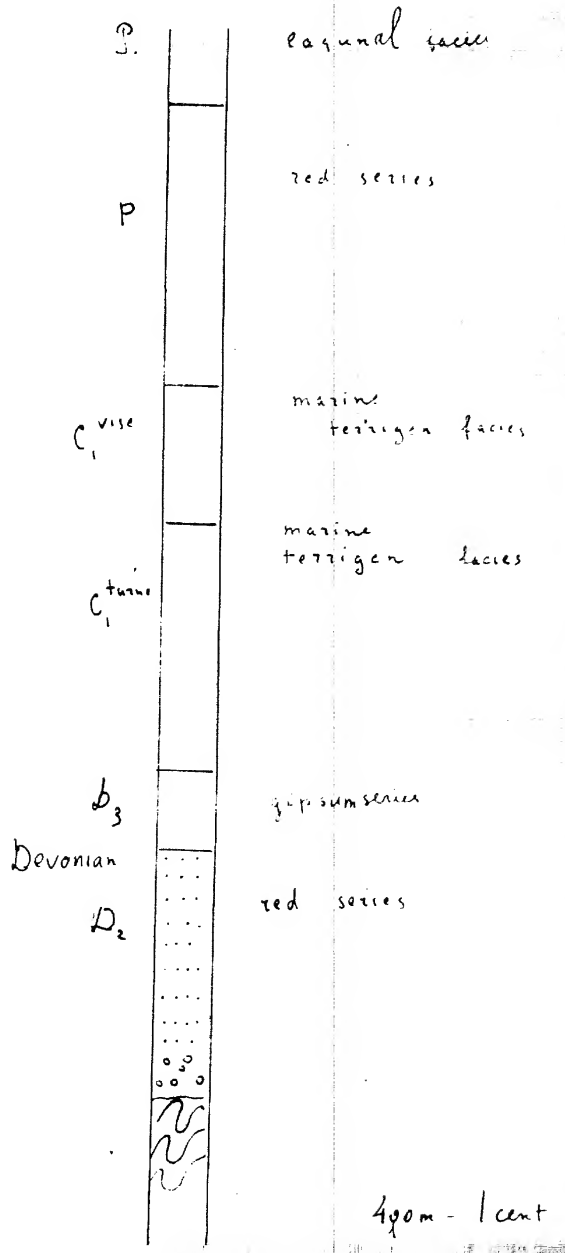
General section

№ 141
146



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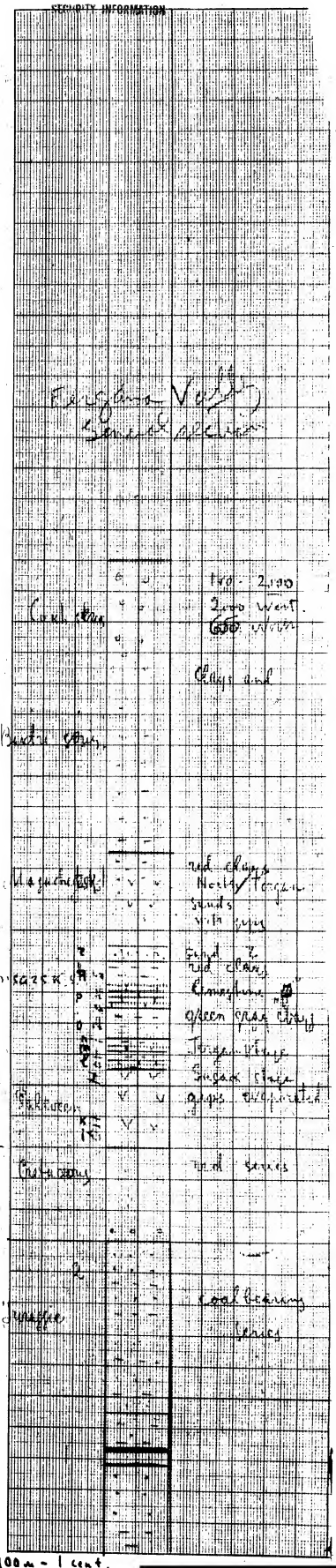

100 m - 1 cent.

100 m 1/10.000

[redacted]

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VERTICAL TICK

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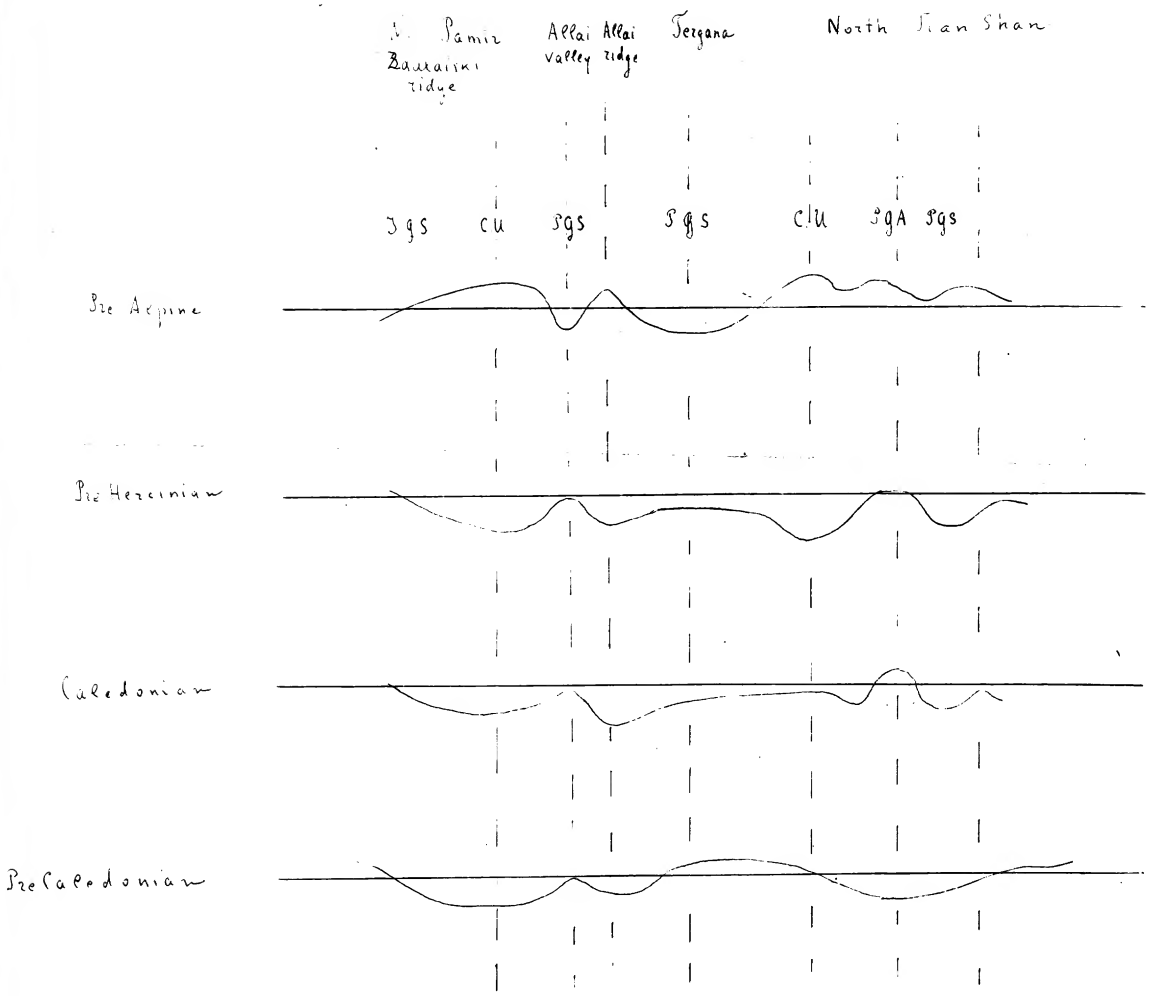
N:151

Fergana Valley
Oscillation diagram



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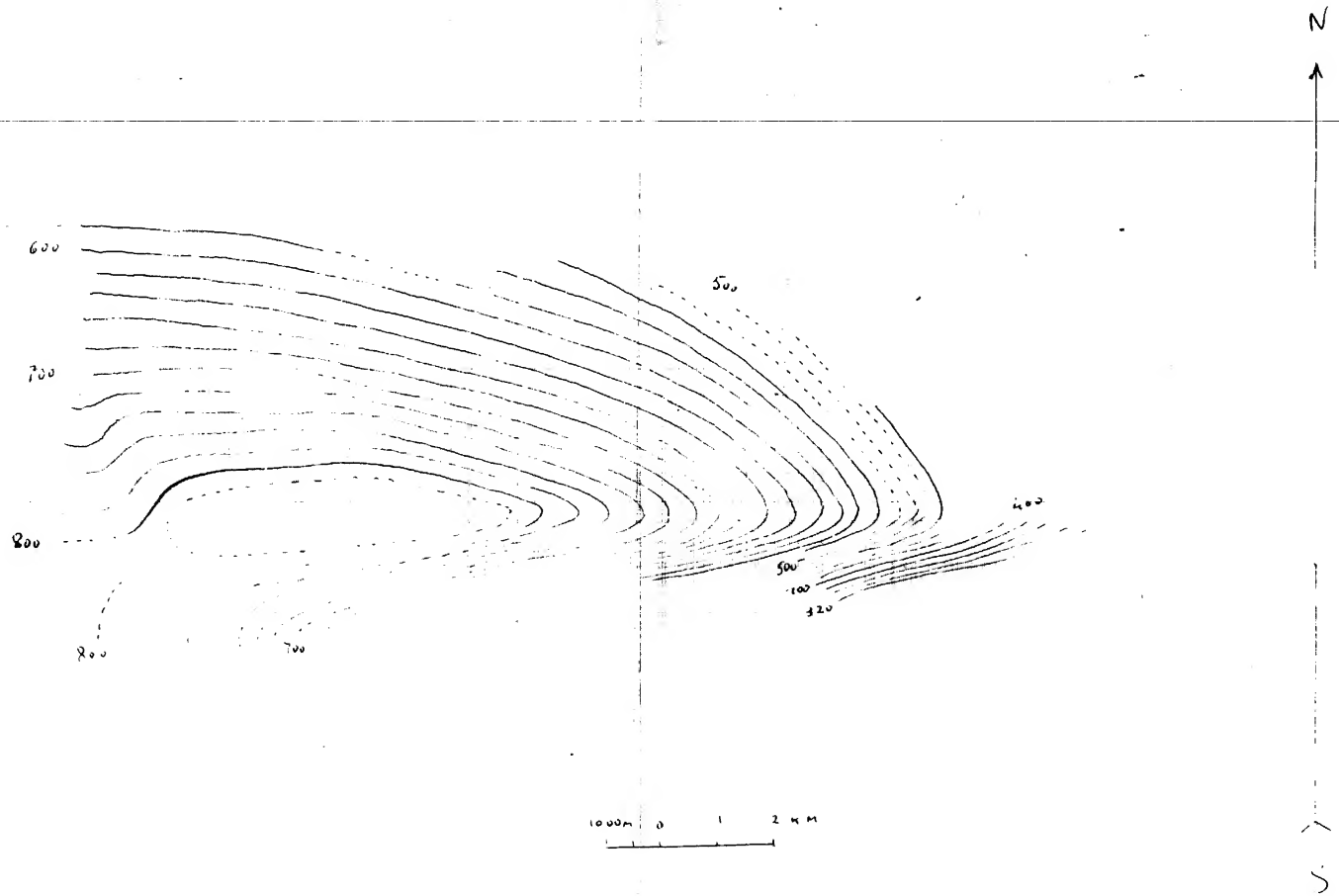
Selrokho Oil field

N:157



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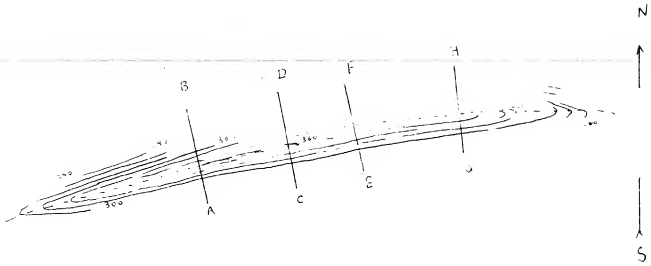
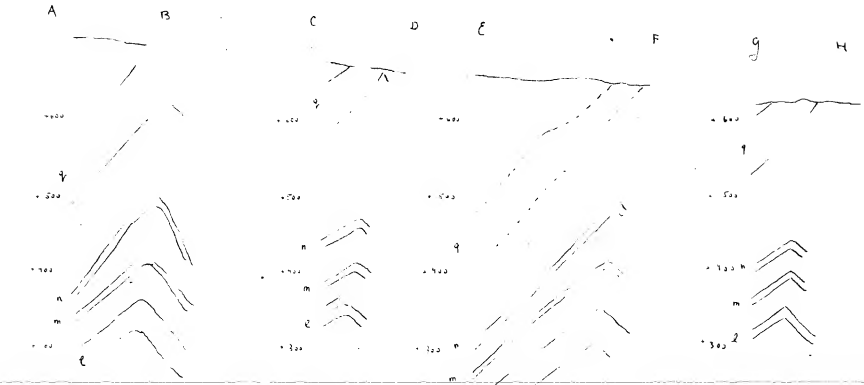
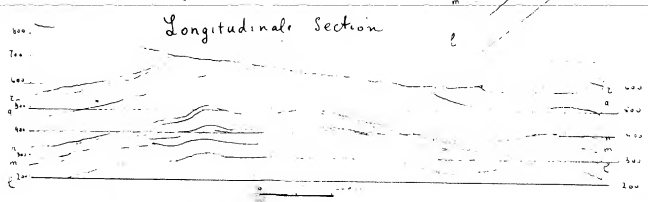
Shorsu Oil field

N° 158





Longitudinale Section



l, m, n q oil horizon

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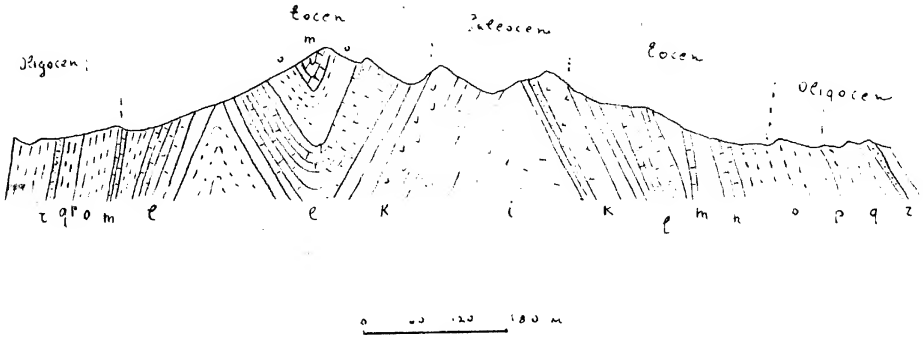
Shoz Su. oil fields

N° 159



i, k, l, m, n, o, p, q, r, oil horizons

Ozokerite at outcrops

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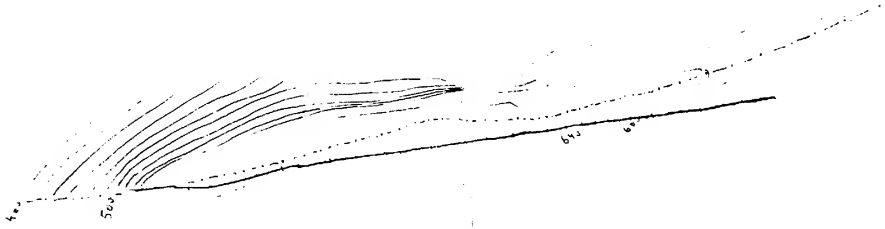
Chimion oil field

№ 160



200M 0 400 800 1000M

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SAKHALIN

Prospects and oil fields

No. 103

1 Okha productive oil field
2 Ekhabi " "
3 Khatangui " "
4 Sabo prospect
5 Poromai productive oil field
6 Nutovo " " "
7 Shalvin prospect
8 Vlasek " "
9 Nabi " "
10 " "
11
12
13 Sarguri " "
14 " "

Asia

Tatar Strait

Aleksandrovsk

• prospect
⊙ oil fields

10 K 0 20 40 KM

anticlines

faults

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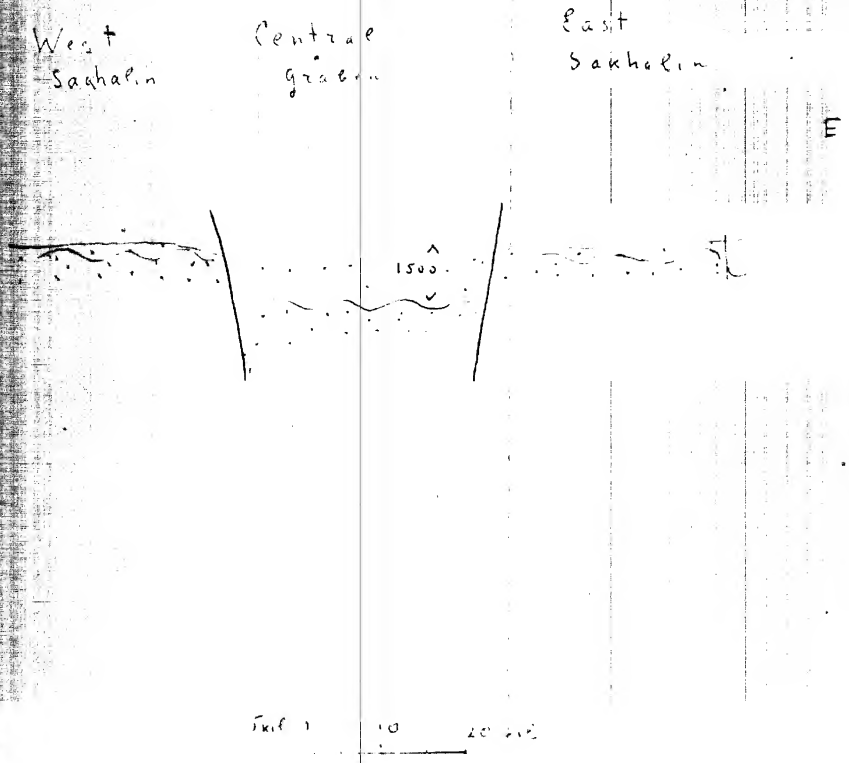
SAKHALIN

General Cross Section



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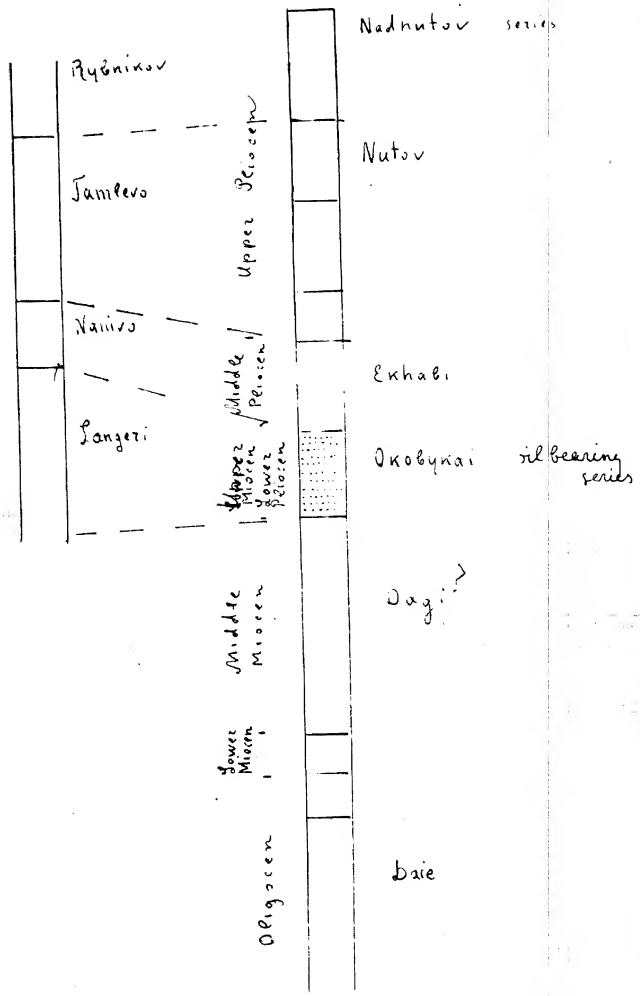
N° 165

SAKHALIN

general section



100 m - 1 cent

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No. 166 SAKHALIN

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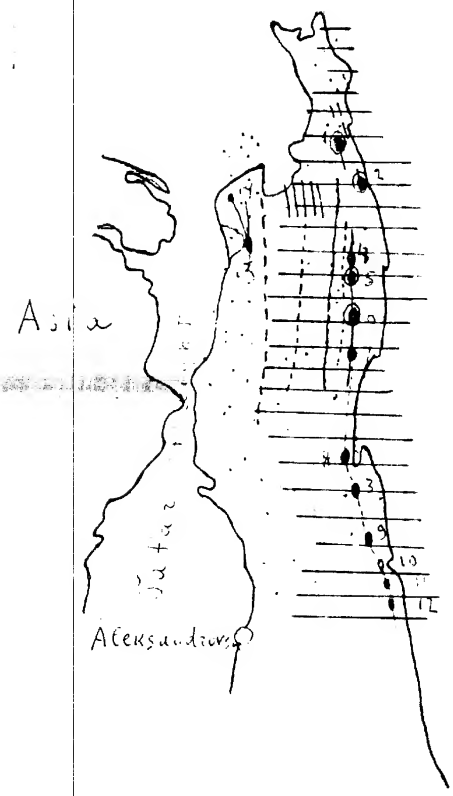
No. 166 ~~No. 163~~ Prospects and oil fields

Miocene & Pliocene Facies.



1. Okha productive oil field
2 Ekhabi " "
3 Khatangui " "
4 Sabo prospect
5. Poloma productive oil field
6. Nutovo " "
7 Shalvin prospect
8 Vigiek " "
9 Nabi " "
10 " "
11 " "
12 " "
13 Sanguni " "
14 " "

• prospect

⊙ oil fields

Lagoonal Facies.

Continental Facies

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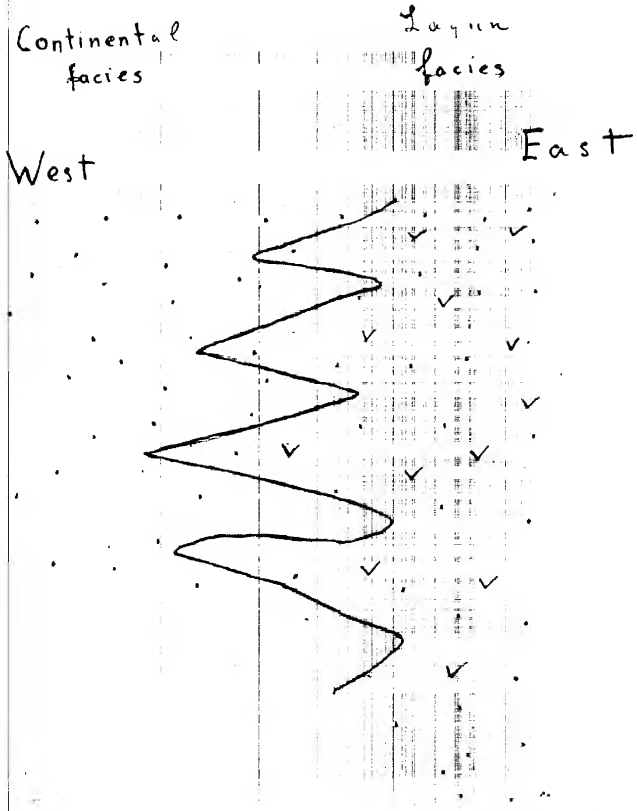
N 167

Change in Facies



Lagunal facies

Continental facies

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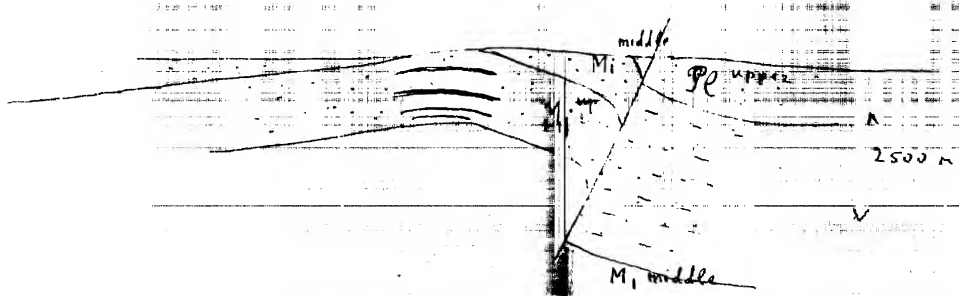
OKHA oil field

No 168



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[redacted]

ORIGINAL

VERTICAL FILE

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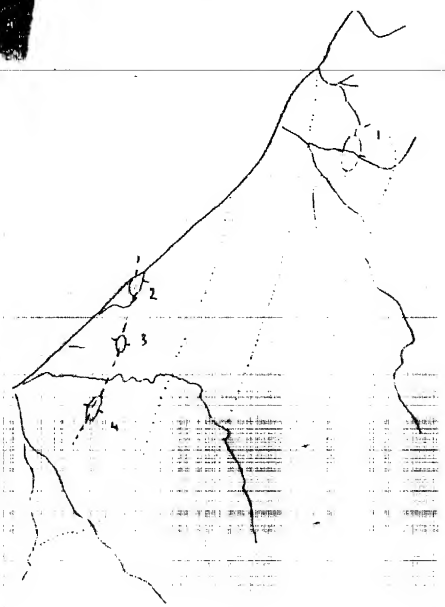
Oil Prospects on Oil Fields Kamchatka



1. Vojampolka structure
2. Jochilinskaja "
3. Khromovskaja "
4. Ivanskaja "

STATINT

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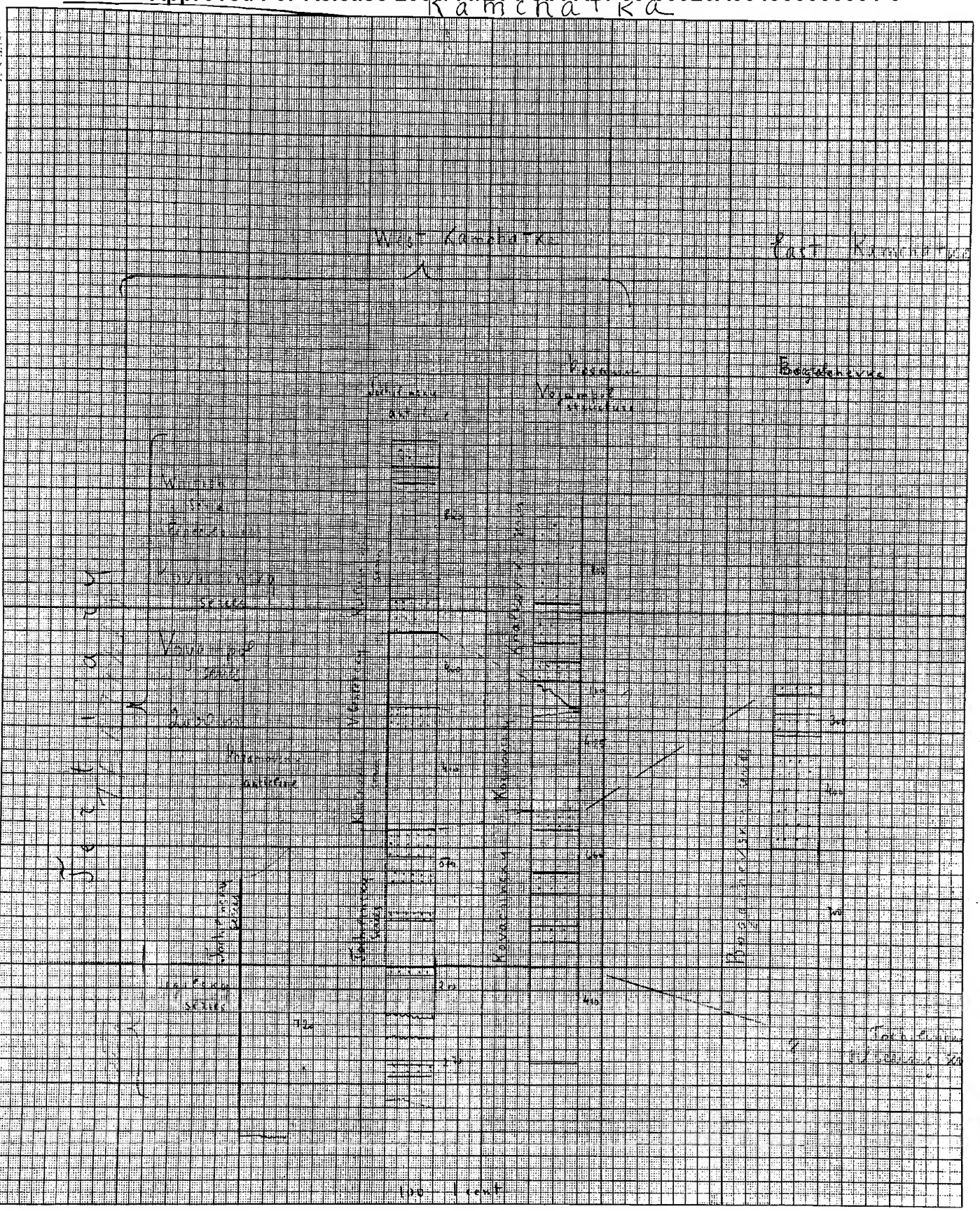
N: 170

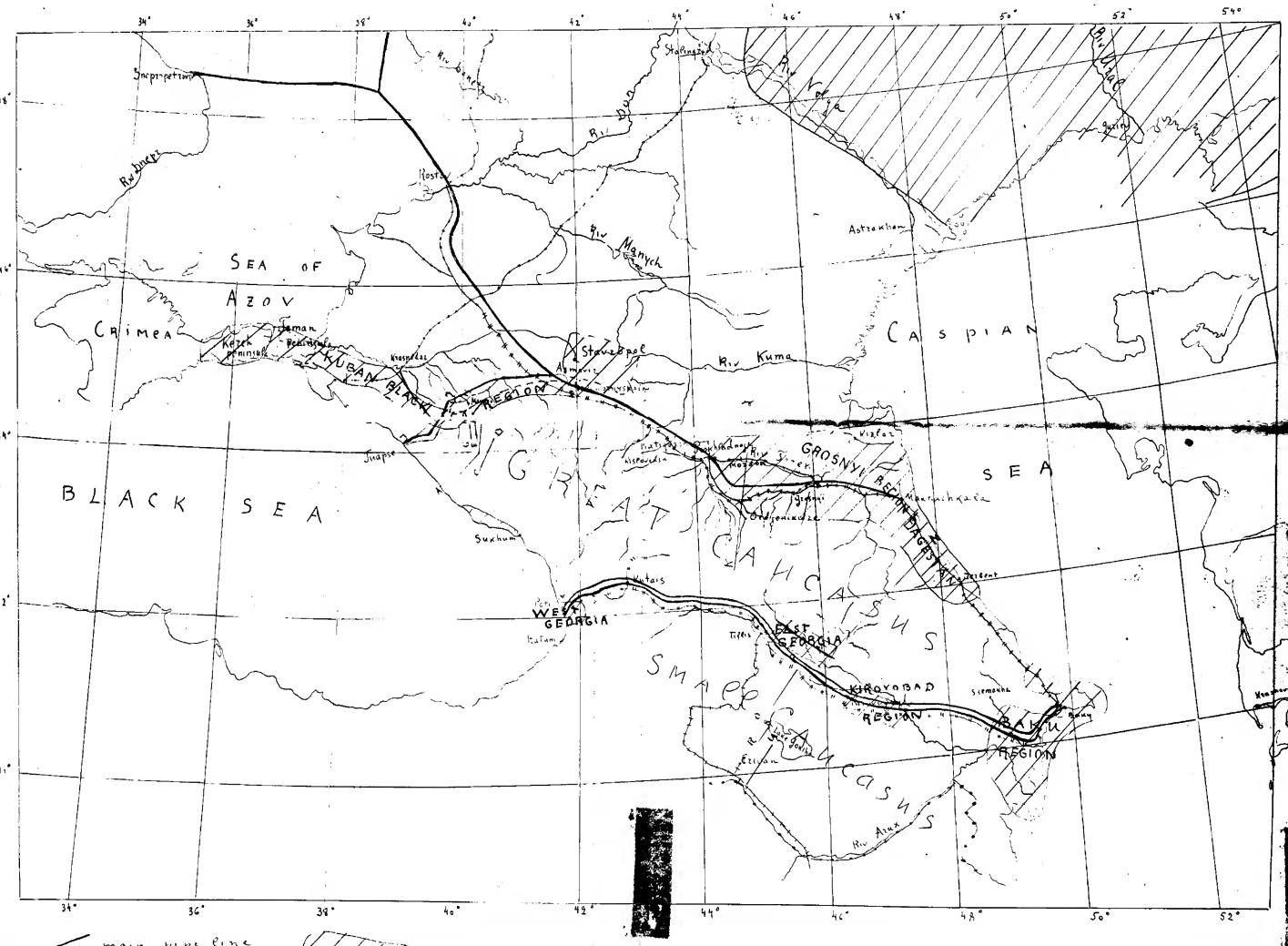
Kamchatka



PERFECT CROSS SECTION PAPER
MILLIMETERS
No 338
EUGENE DIETZGEN CO. CHICAGO NEW YORK

N - 171

caucasus



— main pipe line

▨ oilfields regions

Diagram illustrating major Oscillations

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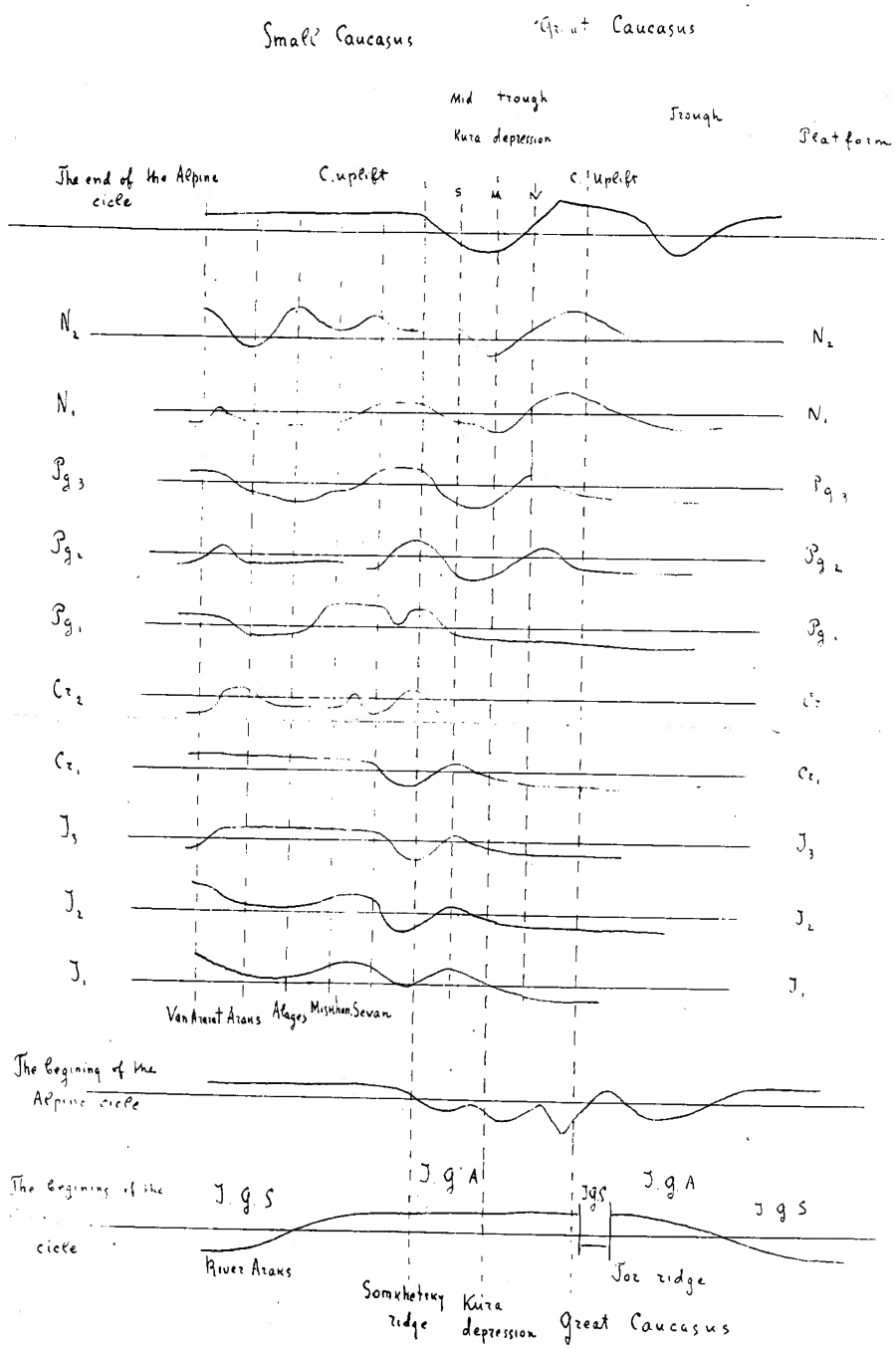
NE



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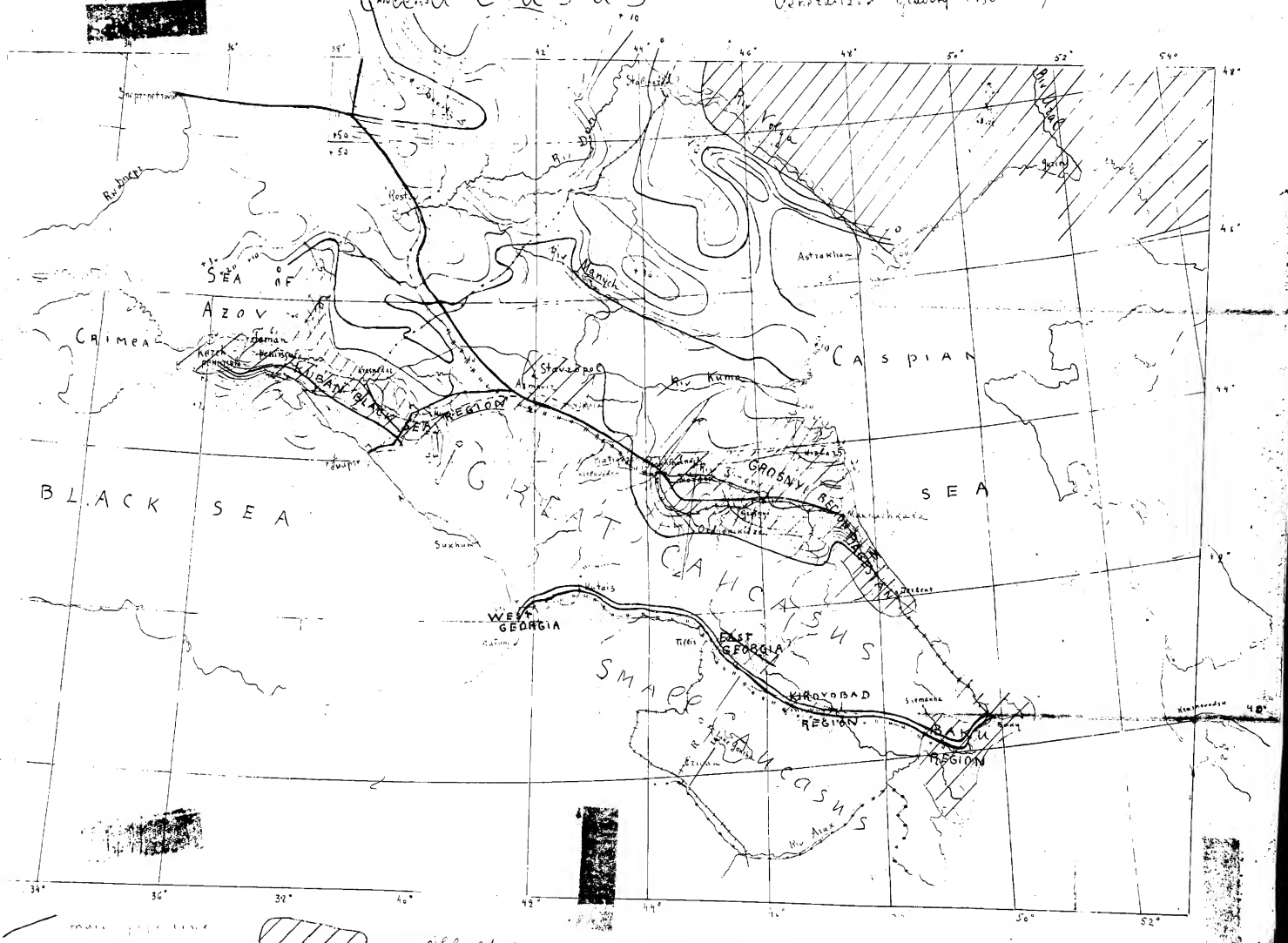
1. No. 177

CAUCASUS Generalized Gravity (Bouguer) No 177

[redacted]



[redacted]

[redacted]

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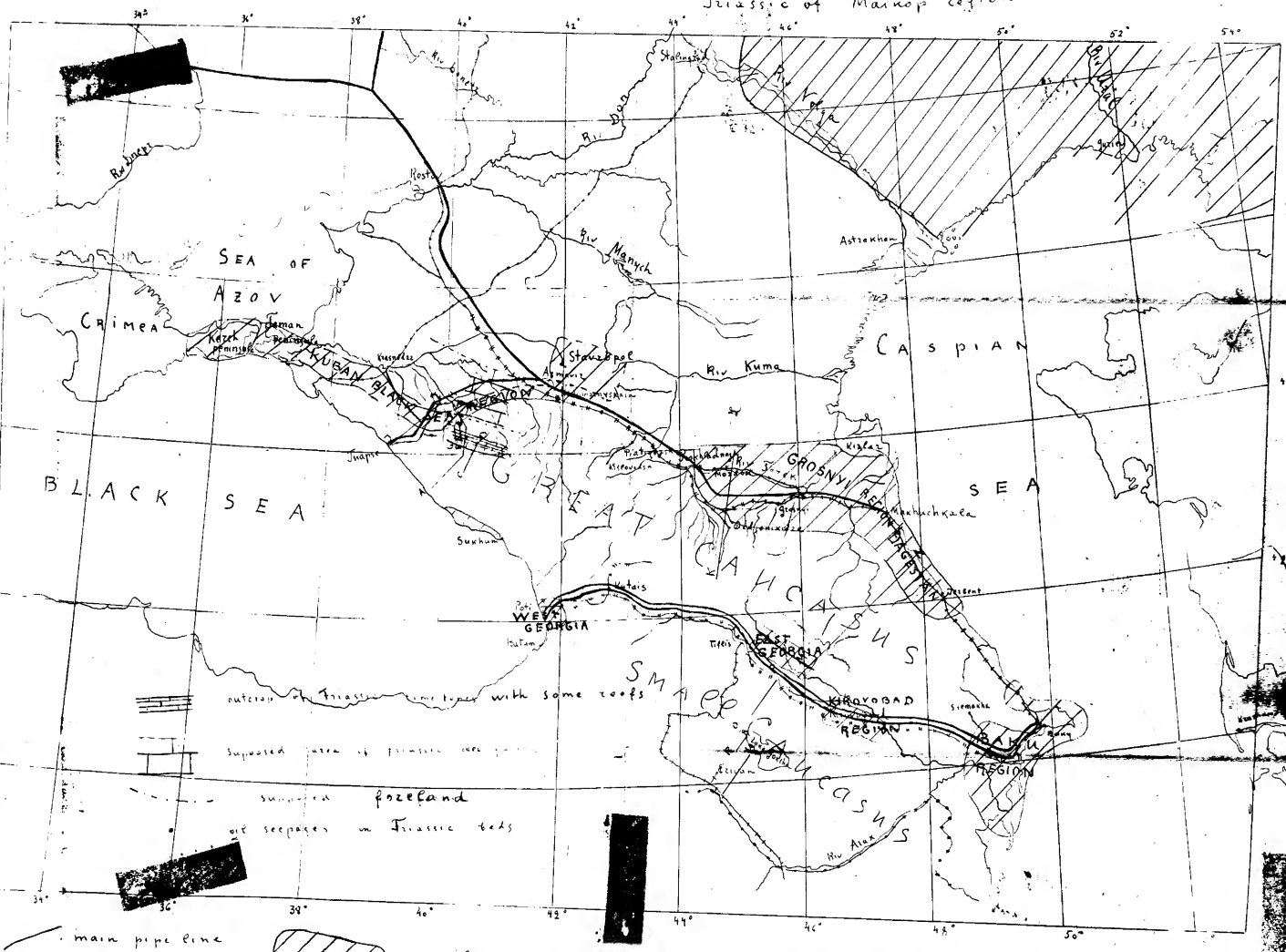
Caucasus

№ 178

~~№ 178~~

Triassic of Maikop region



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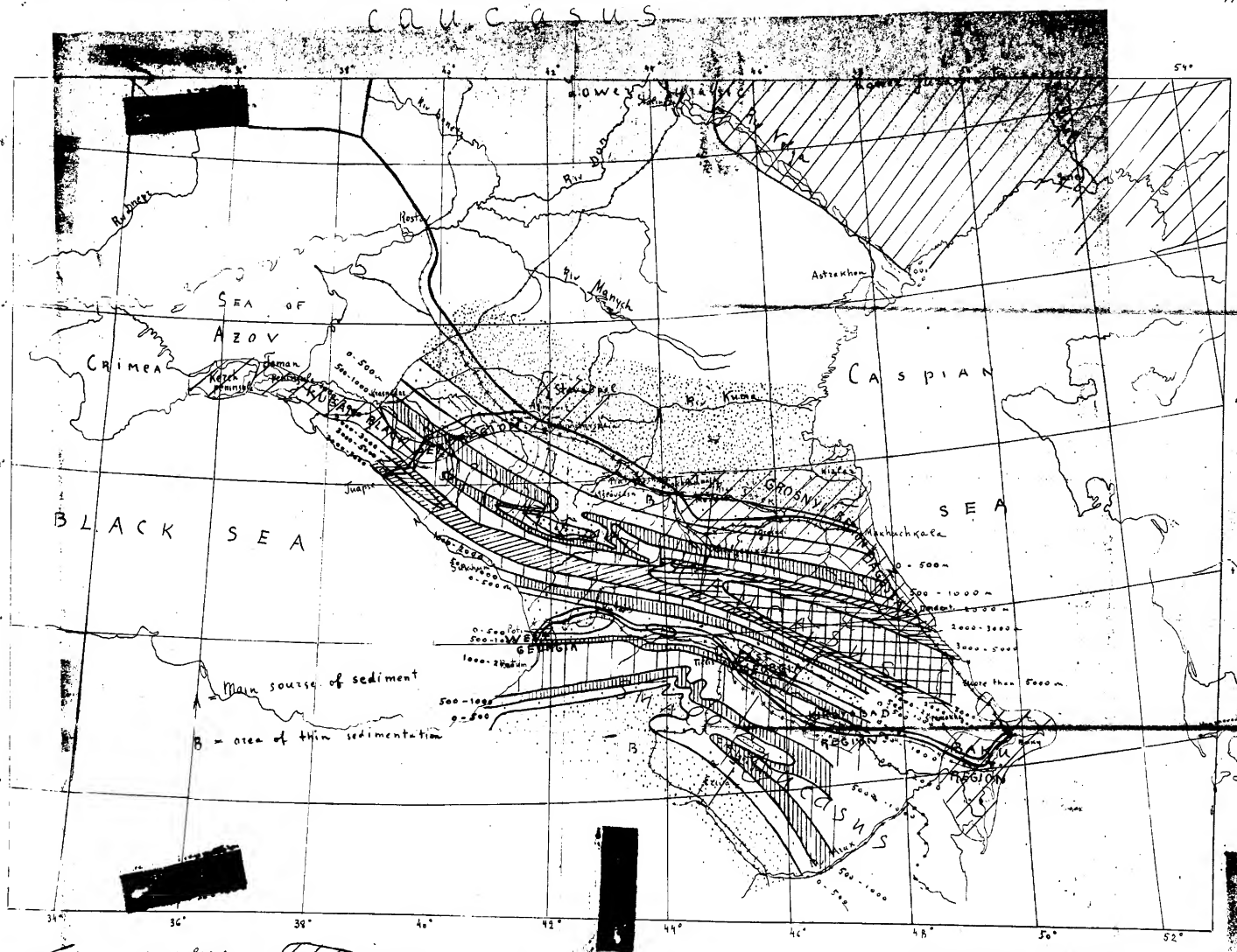
No. 179



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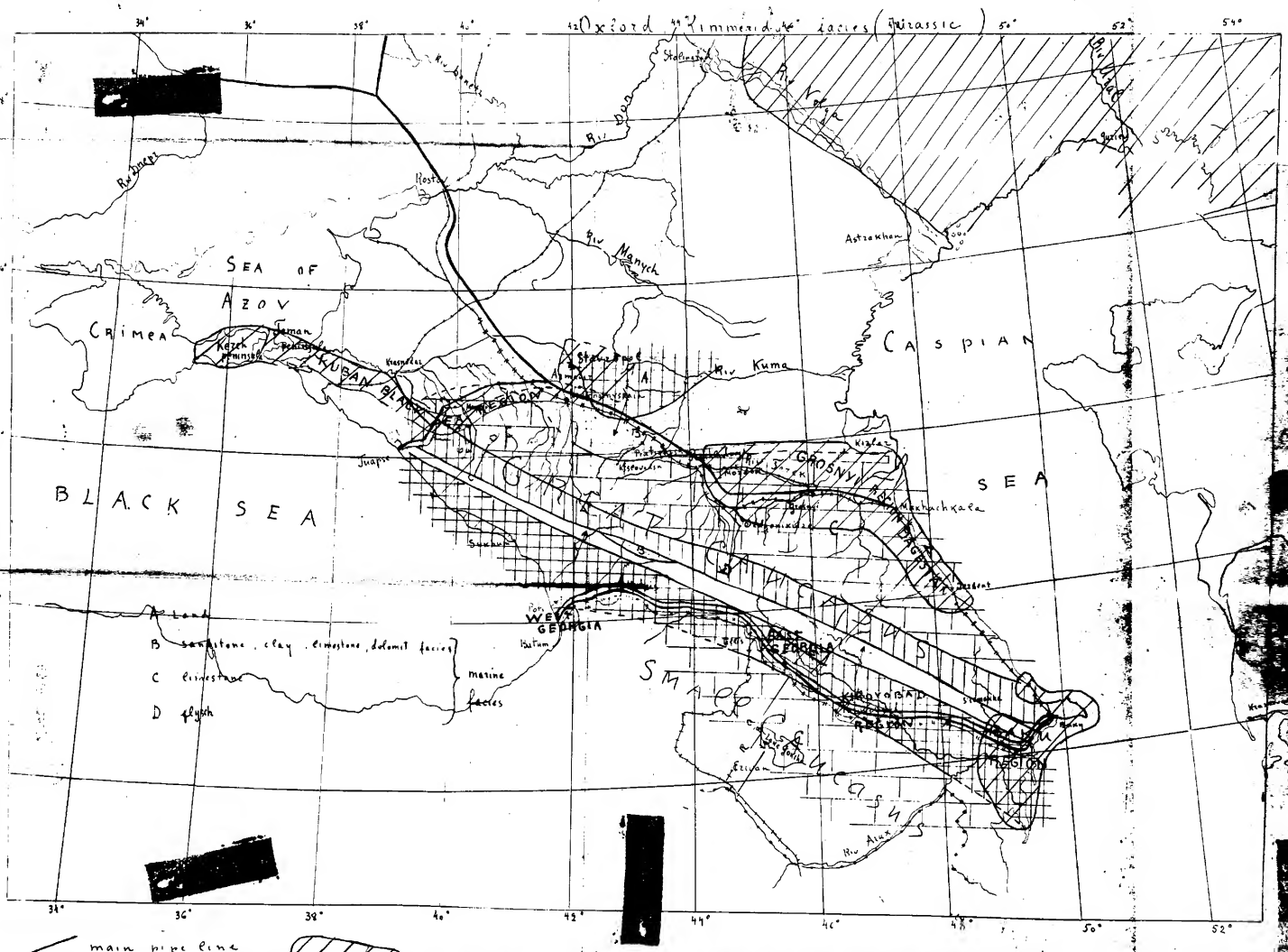
No 180

CAUCASUS



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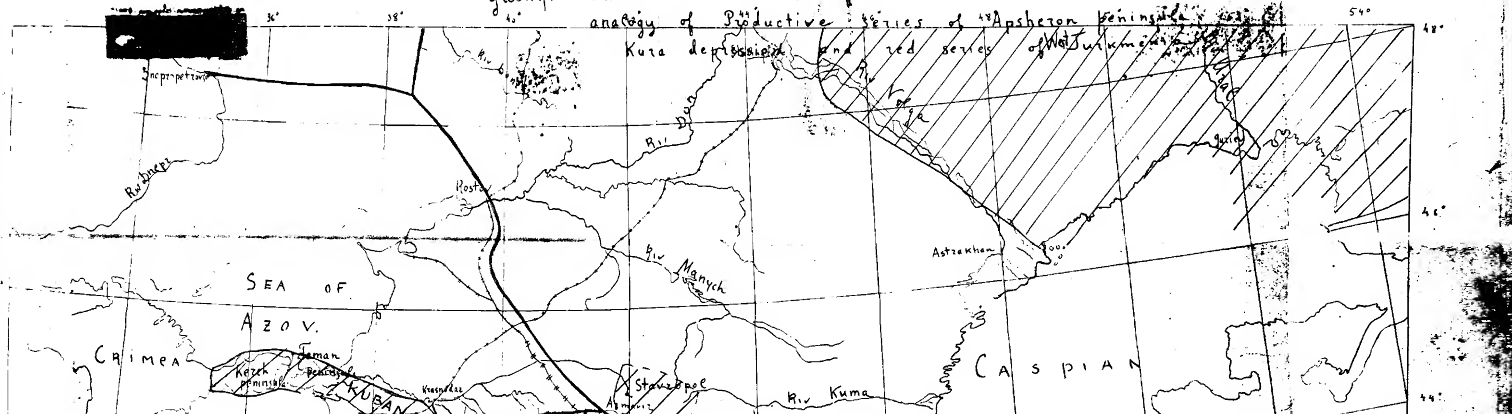
No. 211

~~№ 211~~

Grosnyi Productive series of Pliocan -
analogy of Productive series of Apsheron peninsula
Kura depression and red series of West Turkmenia



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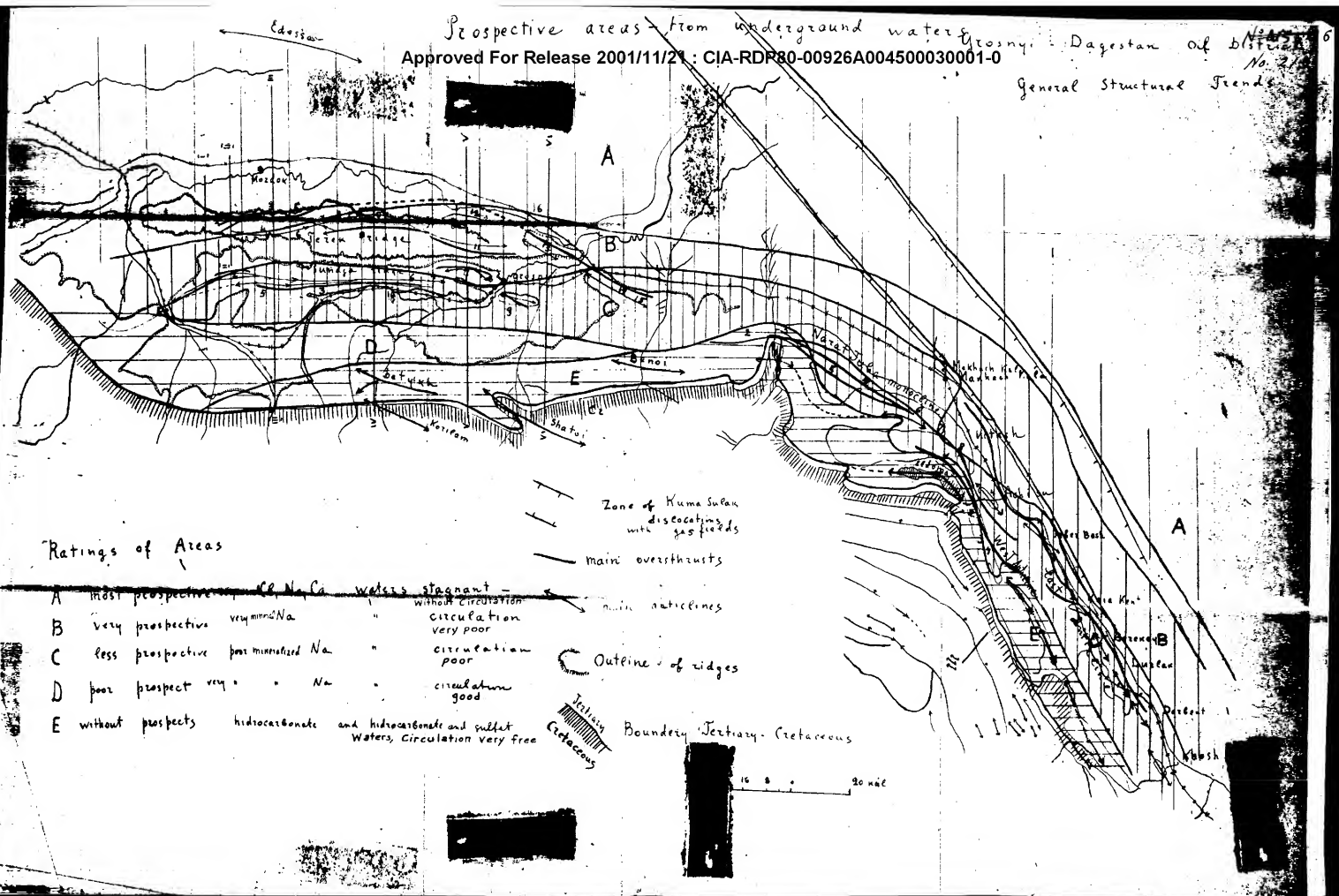
Prospective areas from underground water Grozny - Dagestan of District No. 2

General Structural Trends



Ratings of Areas

A	most prospective	Cl Na Ca	waters stagnant	without circulation
B	very prospective	very mineral Na	"	circulation very poor
C	less prospective	poor mineralized Na	"	circulation poor
D	poor prospect	very " " Na	"	circulation good
E	without prospects	hidrocarbonate and hidrocarbonate and sulfat Waters, Circulation very free		

N=219

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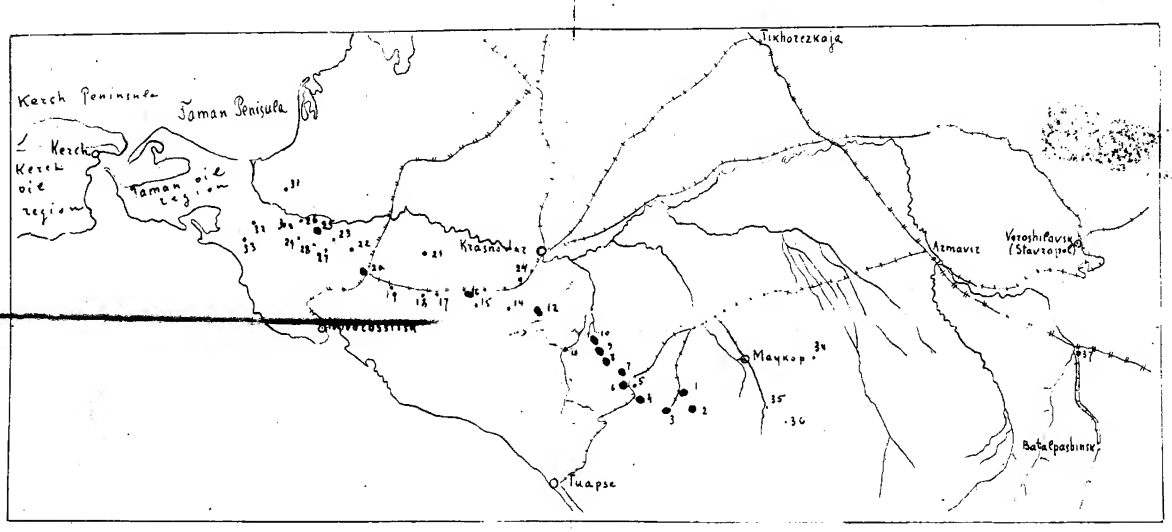
Northwest Caucasus Oil District
(Kuban Black Sea.)
(See regional map #171)



No. 1	Apsheronskaja	oil field	
2	Shirvanskaja	" "	
3	Neftjanaja	" "	
4	Khodyzhenskaia	" "	
5	Kabardinskaia		
6	Asphaet Mountain	oil field	
7	Shirokaja Balka	" "	
[redacted]		" "	
[redacted]		" "	
10	Kutaissskaia	oil field	
11	Goriatchi Kluch	prospect	
12	Kaluzhskaja	oil field	
13	Stavropolskaia	prospect	
14	Smolenskaia	prospect	
15	Azovskaia	"	
16	Jeskaia	oil field	
17	Kholmskaia	prospect	
18	Akhtyrskaia	"	
19	Abinskaia	"	
20	Krymskaia	oil field	
21	Mingrelskaia	new prospect (far from mountains)	
22	Kievskaia	prospect	
23	Kesterovo	"	
24	Afinskaia	"	
25	Adykhum	"	
26	Vareniikovo	"	
27	Medovka		
28	Glad		
29	Chernobinskaia		
30			
31	Kuzganskaia		
32	Dzhaginskaia		
33	Suvorovo Cherkessk		
34	Jaroslavskaja		
35	Abadzekhovsky		
36	Sokhraiski		
37	Nevinomyskaia		

N.W. Caucasus

Apsheronian oil field (N. 1)

N: 215

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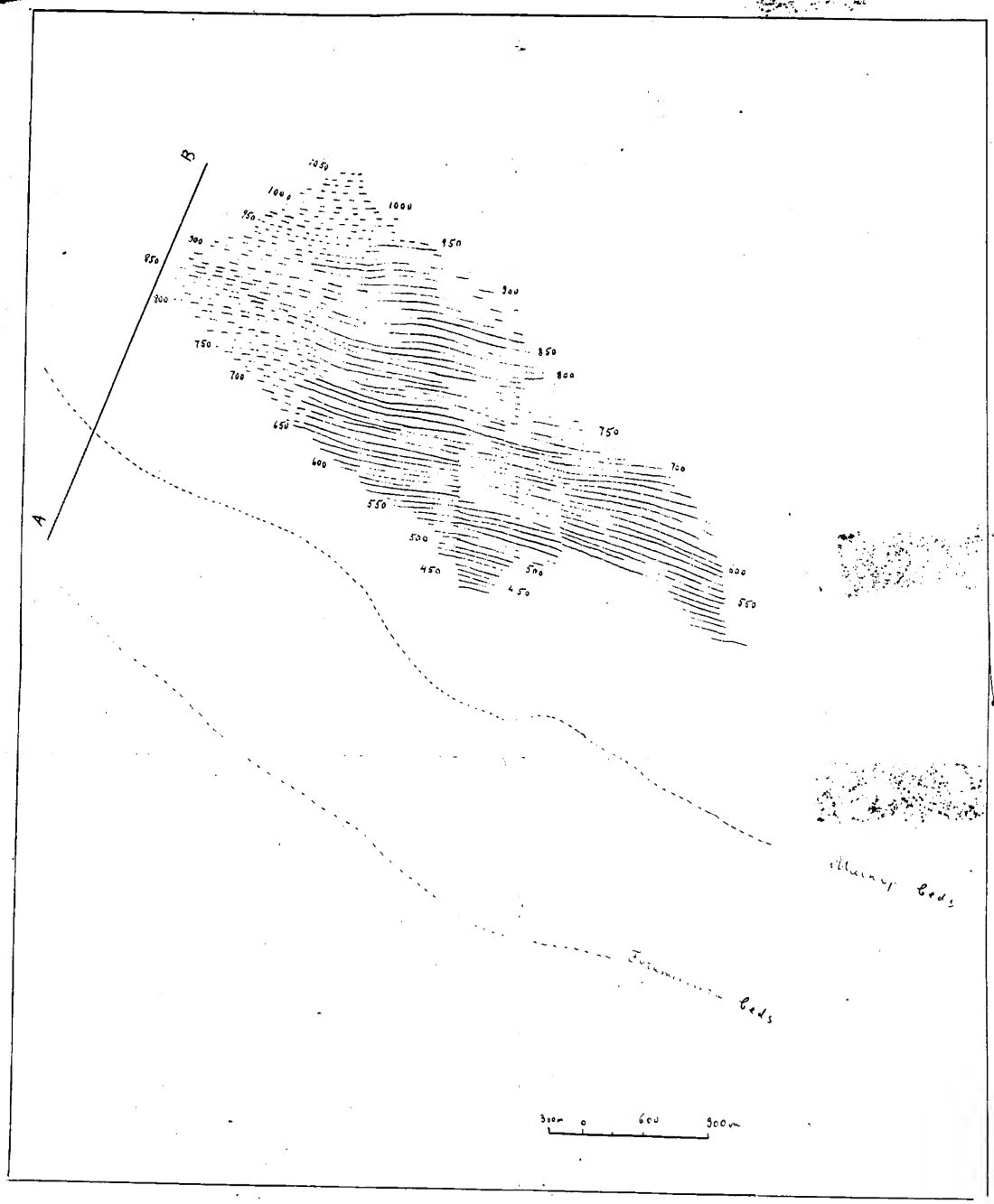

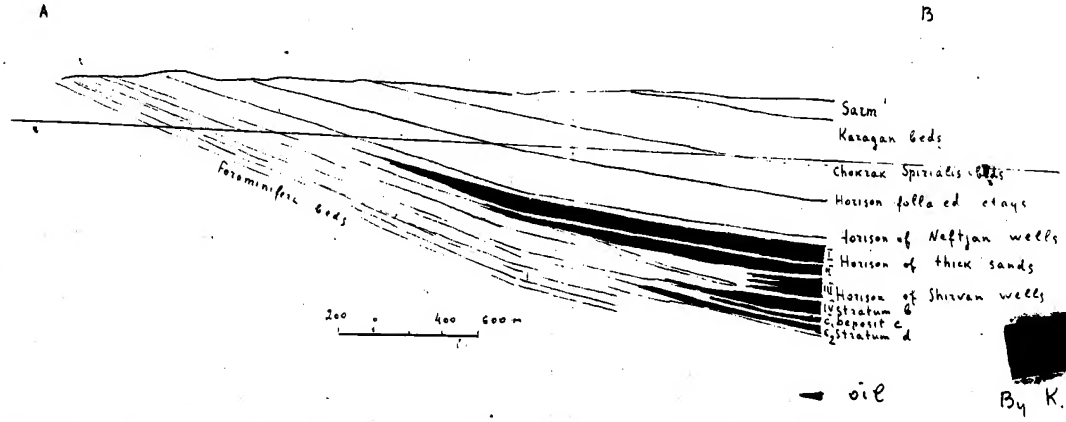

[redacted]

By K. A. Prokopov.

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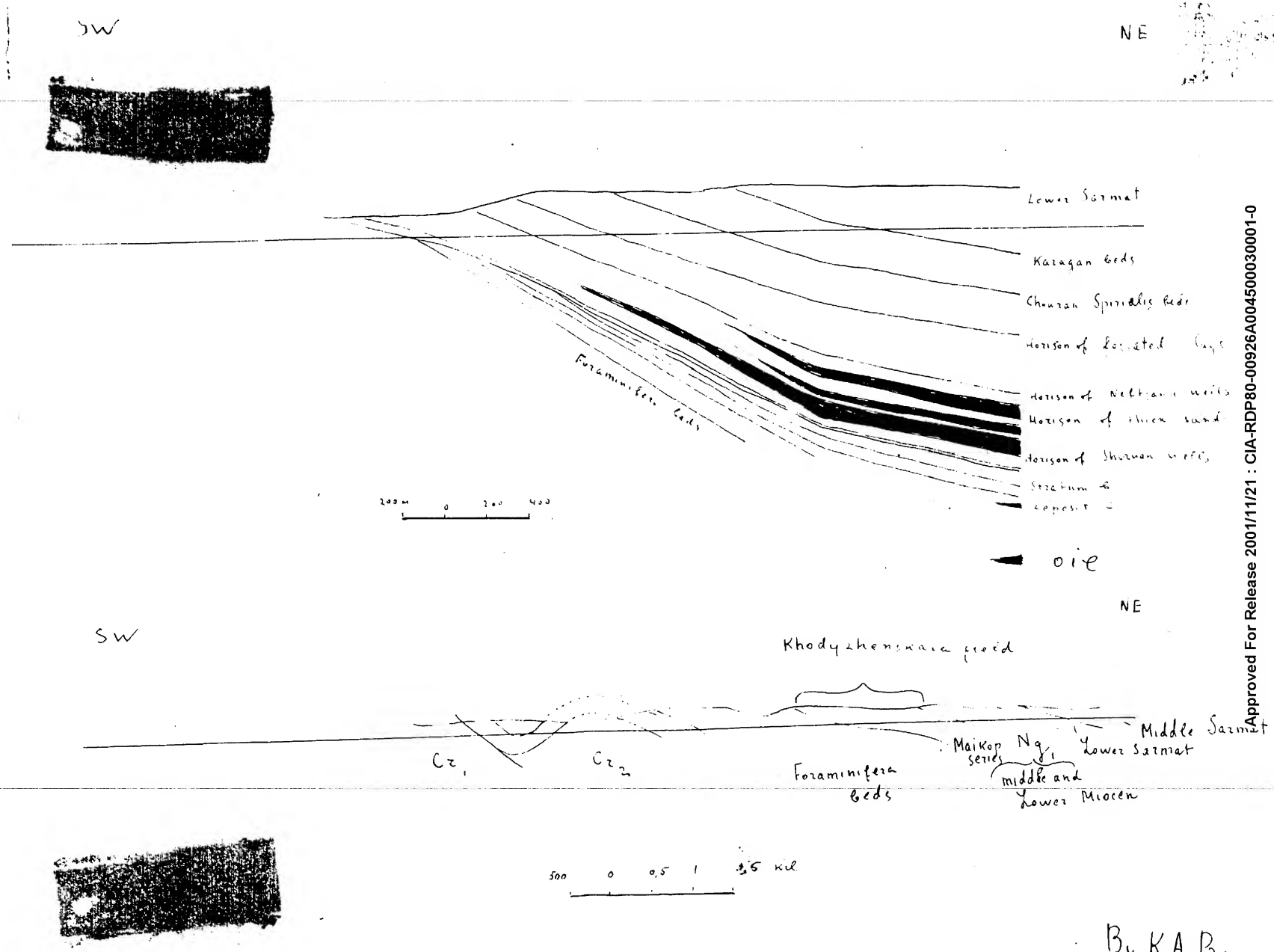
Khodyzhenski oil field (N° 4)

N° 216



By K.A Prokopov

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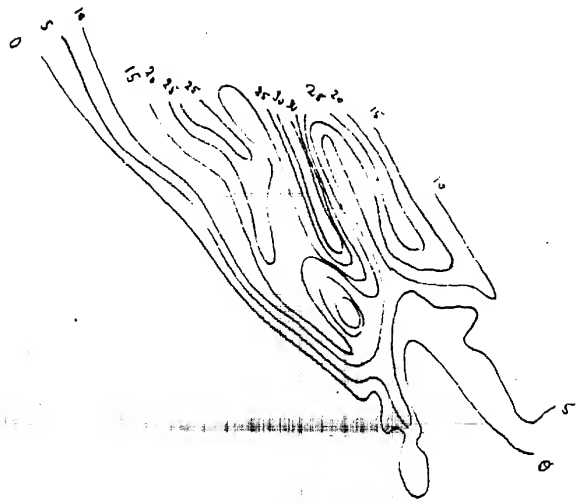
N: 217

Neftyanoi Shirvanisk

oil field



equal thicknesses of deposit „C_2"

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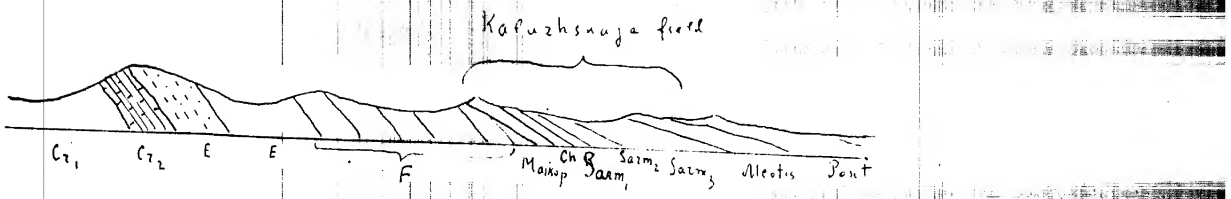
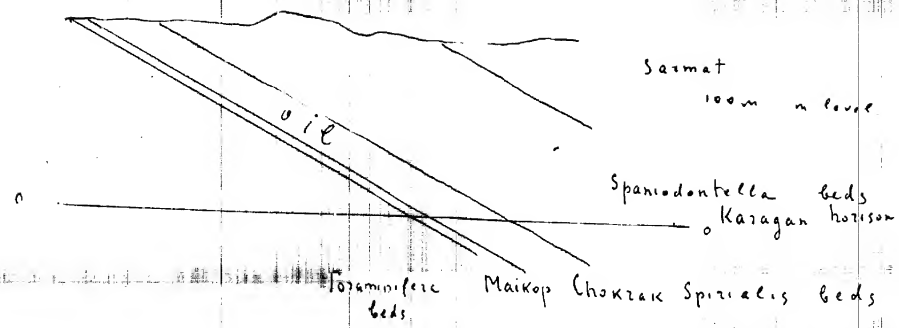
Kaf (Kaf field (14 : 12)) N: 218





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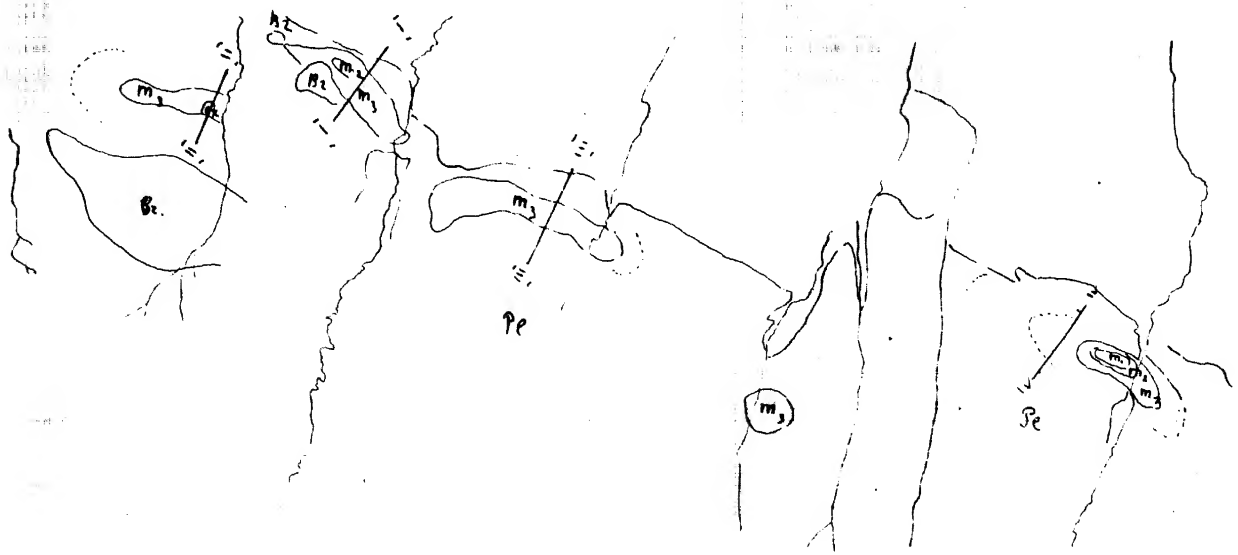
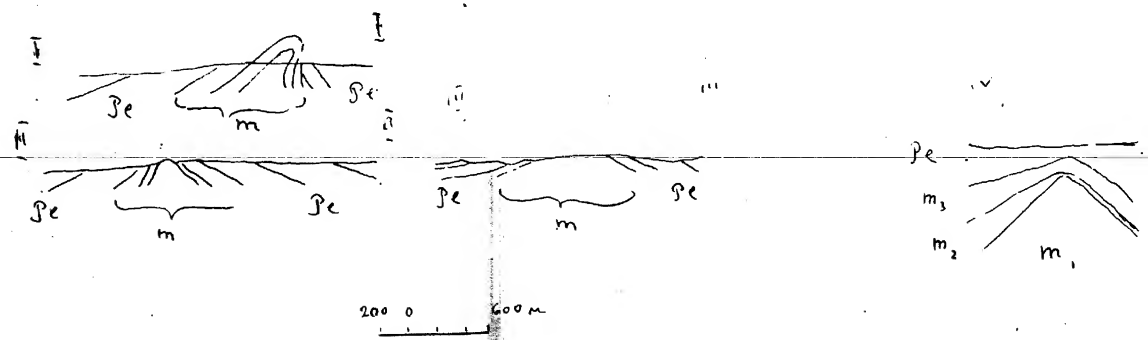
Kesletovo Vazenikovo ore fields (N°s 2[illegible])

N°219





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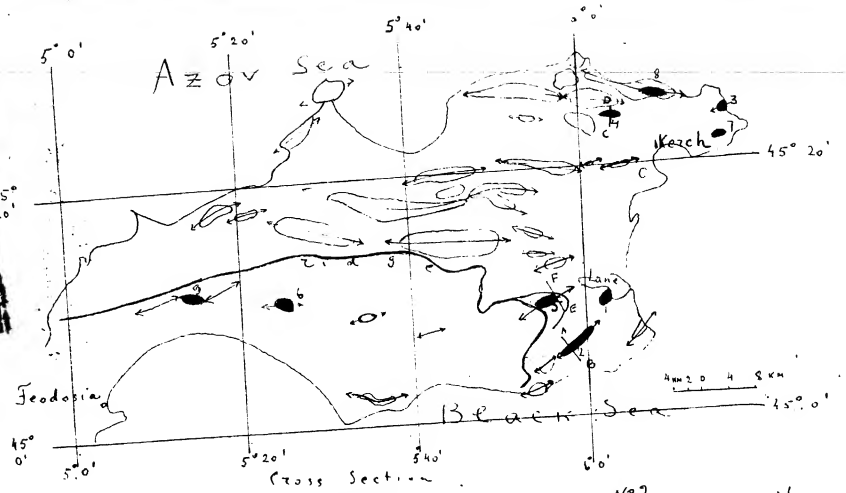
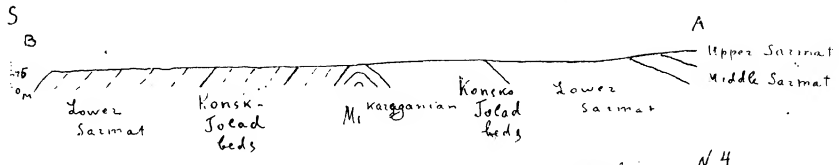
Kerch Peninsula



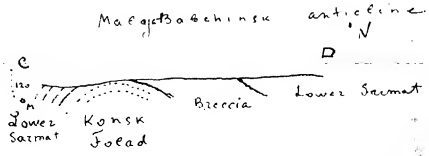
1	Chongeleek	oil field
2	Chozeleek	oil field
3	Borzovka (Shirokaja Balka)	
4	Malaja Babchinsk	oil field
5	Kop Kochegensk	oil field
6	Kezleut	oil field
7	Majak	oil field
8	Tarkhan	oil field
9	Armaeeli	oil field
10	Kezlent	prospect

Cross Section
Chozeleek anticline N°2



Kop Kochagen N 5

Malaja Babchinsk anticline N 4



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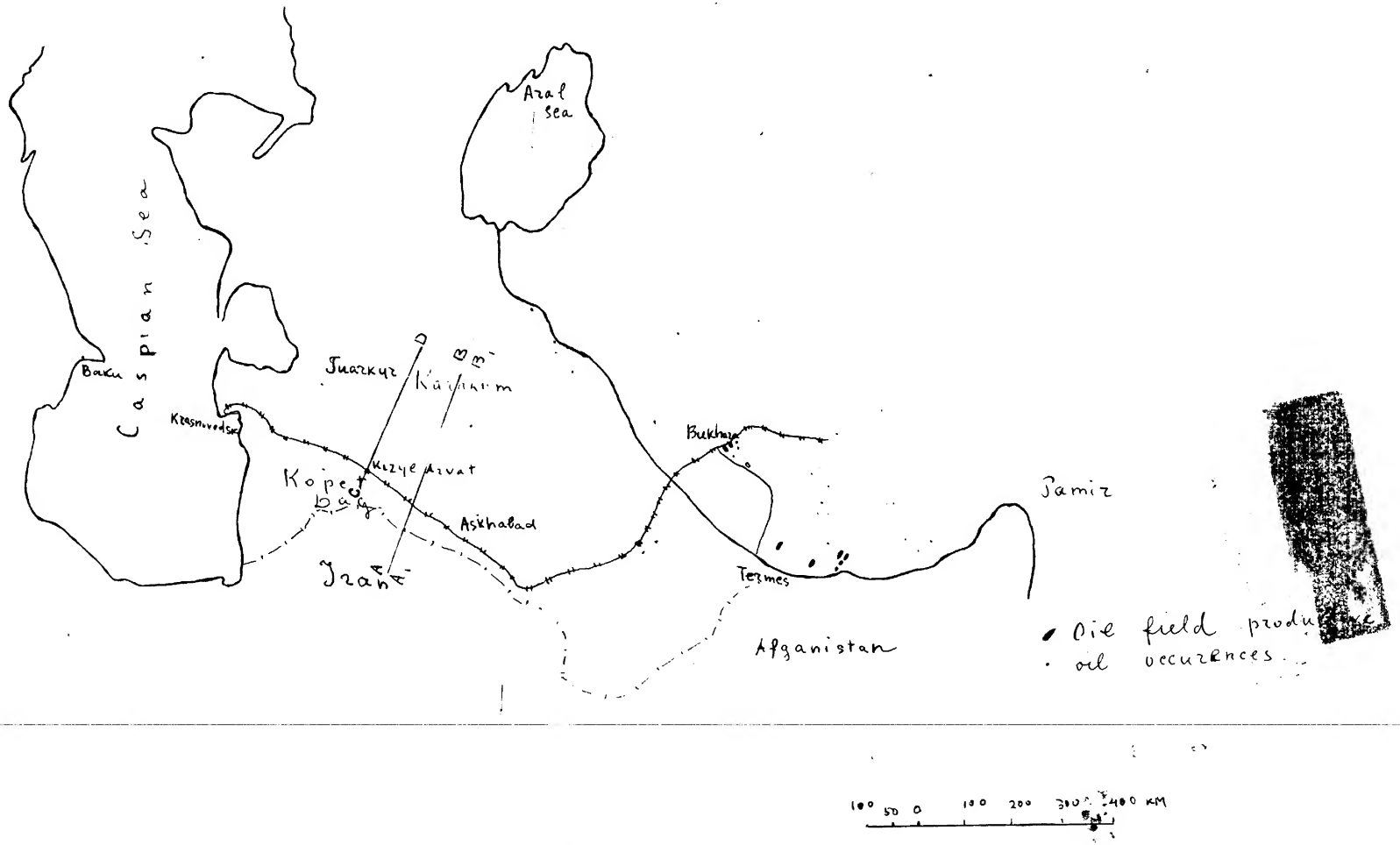
Turkomania

№ 221



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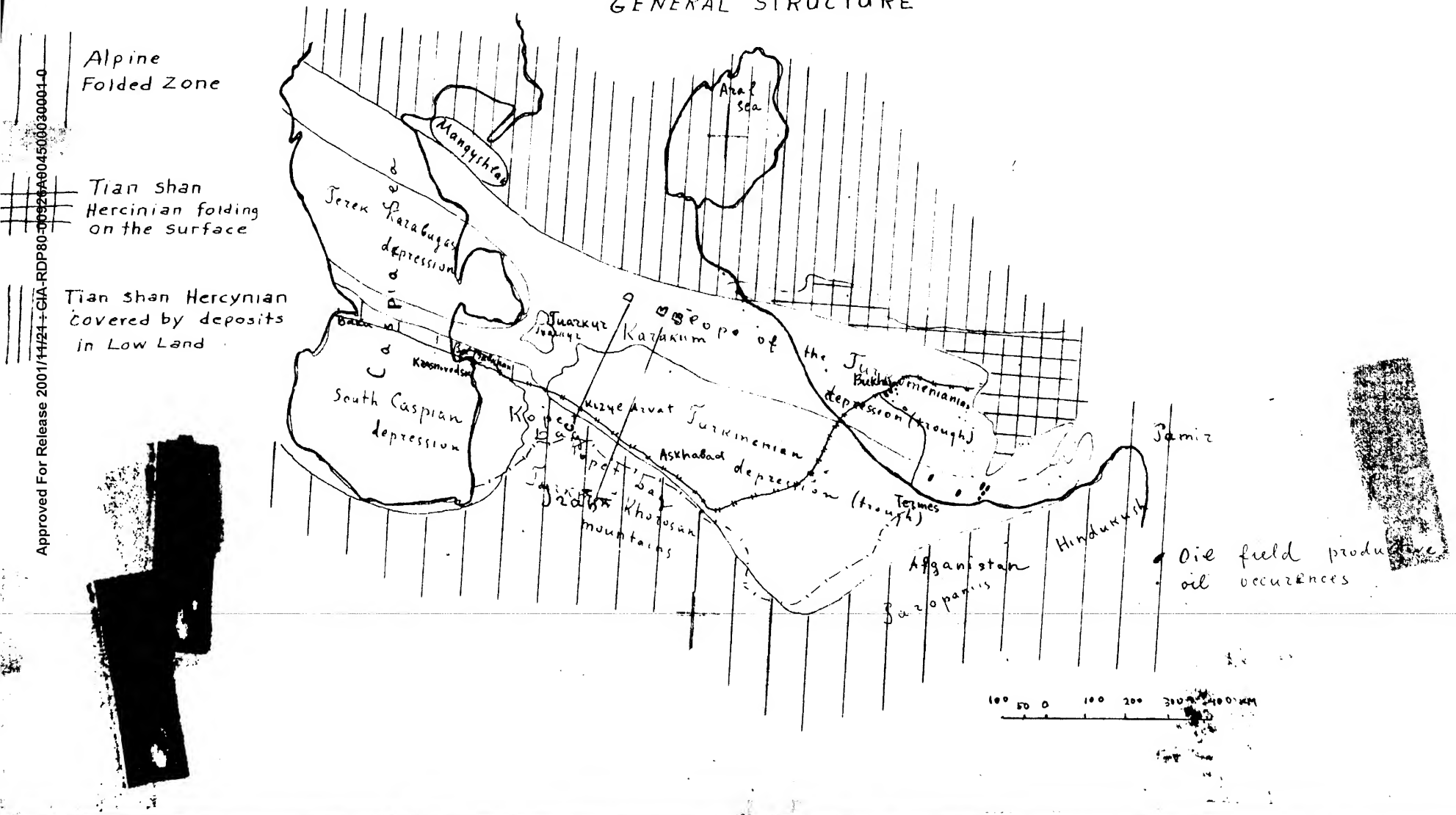
Turkomania

~~No. 221~~
No. 222

GENERAL STRUCTURE



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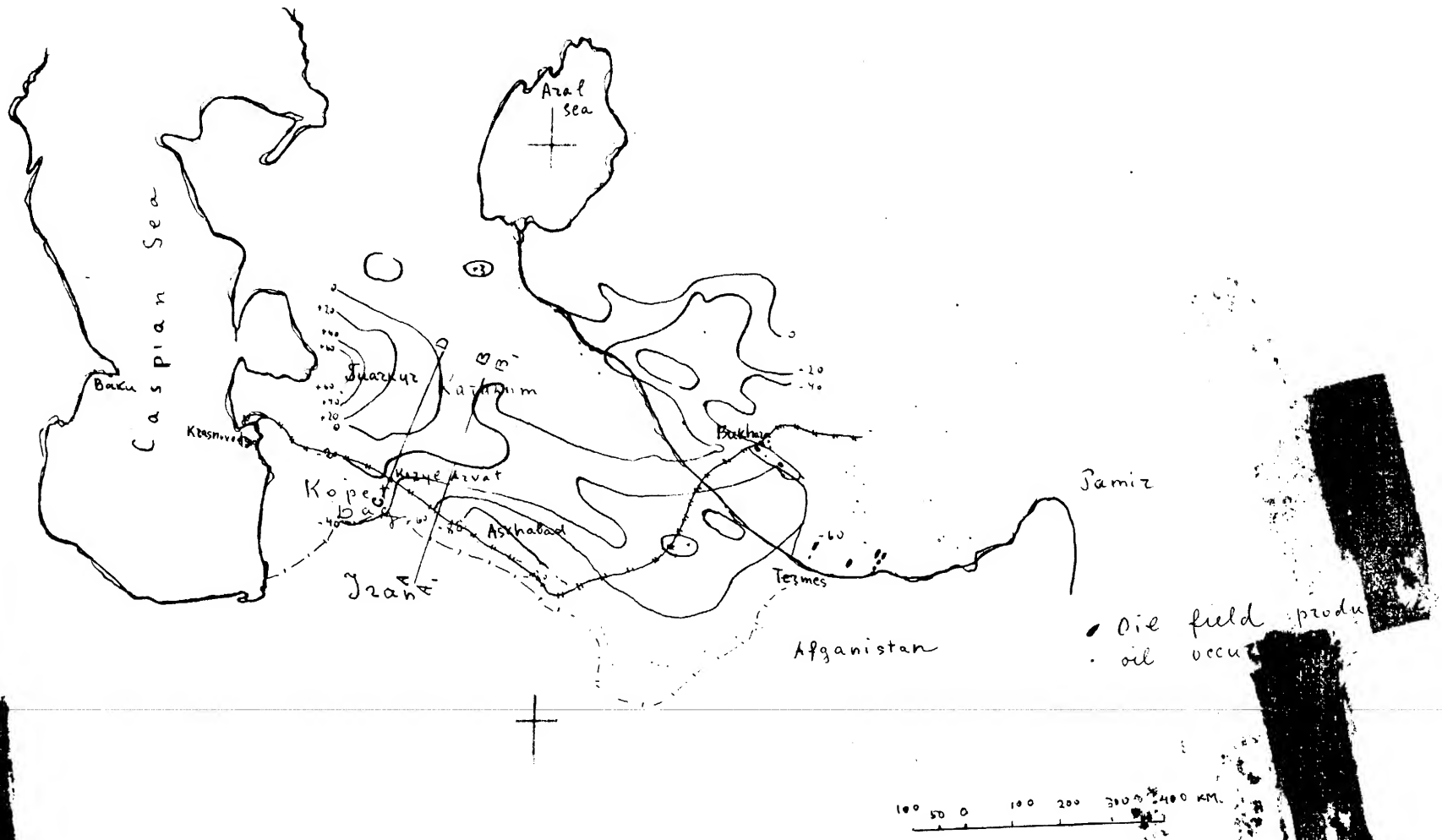
~~N° 221~~
No 223

~~N° 223~~

Turkmania

General gravity



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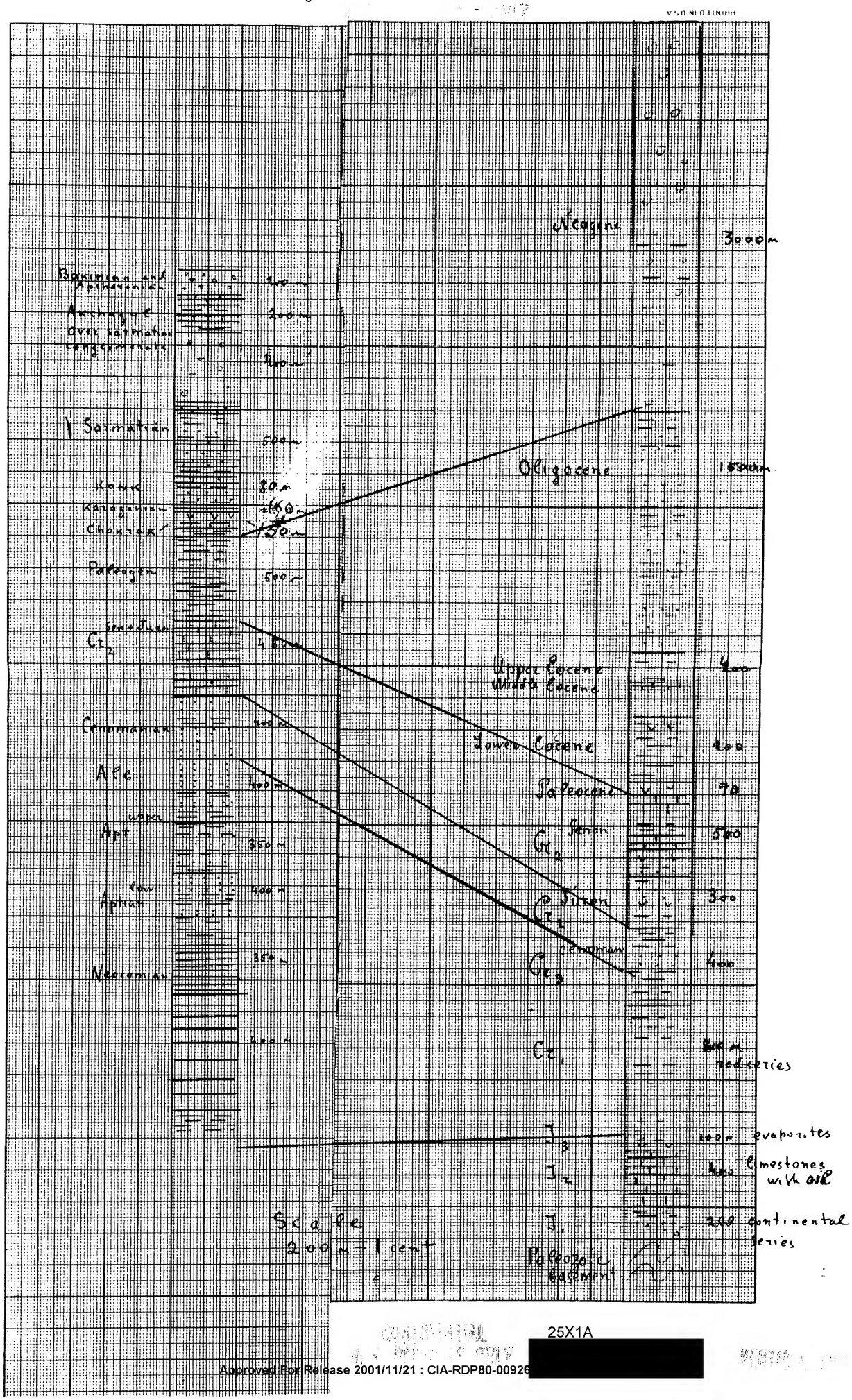
Kopet Dag Approved For Release 2001/11/21 : CIA-RDP80-00926A004500030001-0 Bukhara N 227



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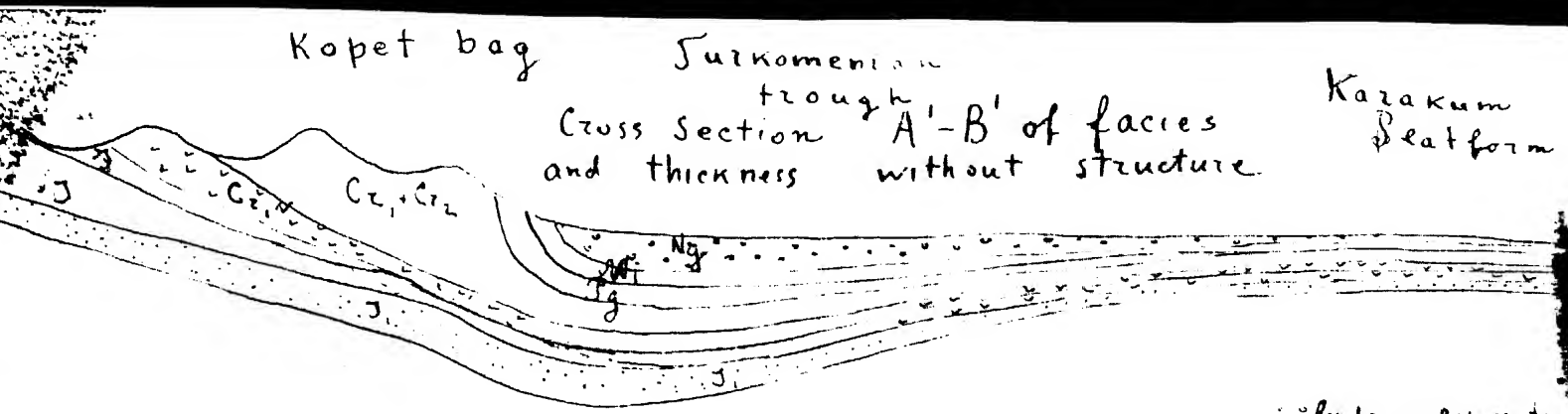
Kopet bag Turkomenian trough

Cross Section A'-B' of facies and thickness without structure

Kazakum Platform

№ 25



Pandconglomerate

evaporite

continental

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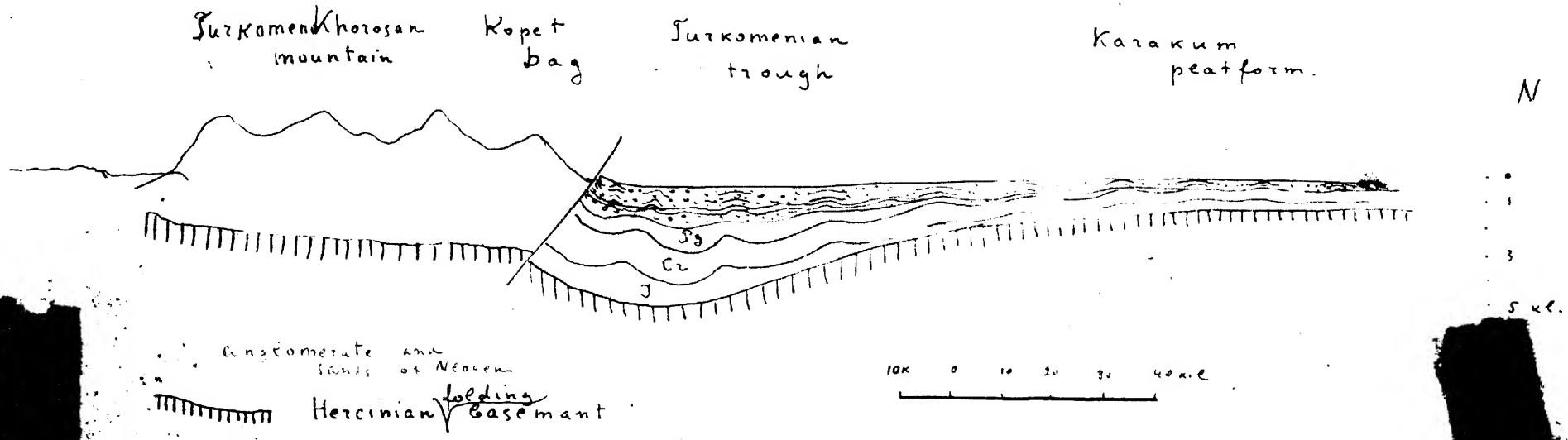
Cross section A-B
across Turkomanianian trough

№ 326



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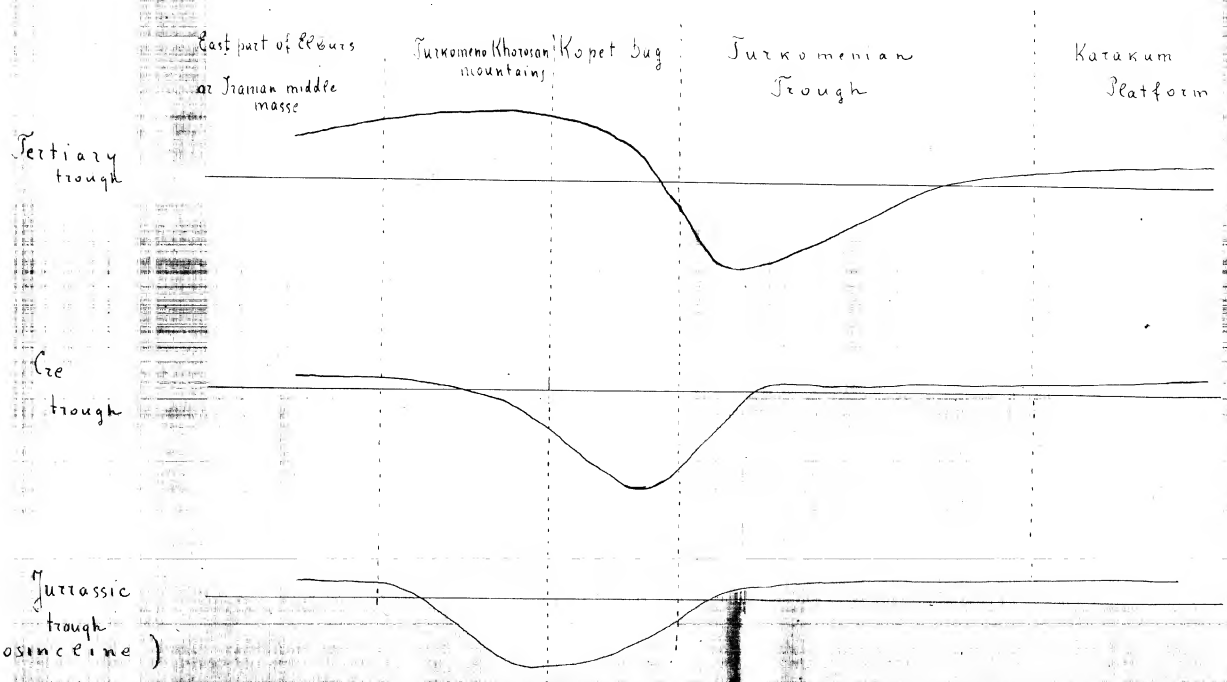
ILLEGIB

Oscillation Diagram



25X1A

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[redacted]

VERTICAL FILE

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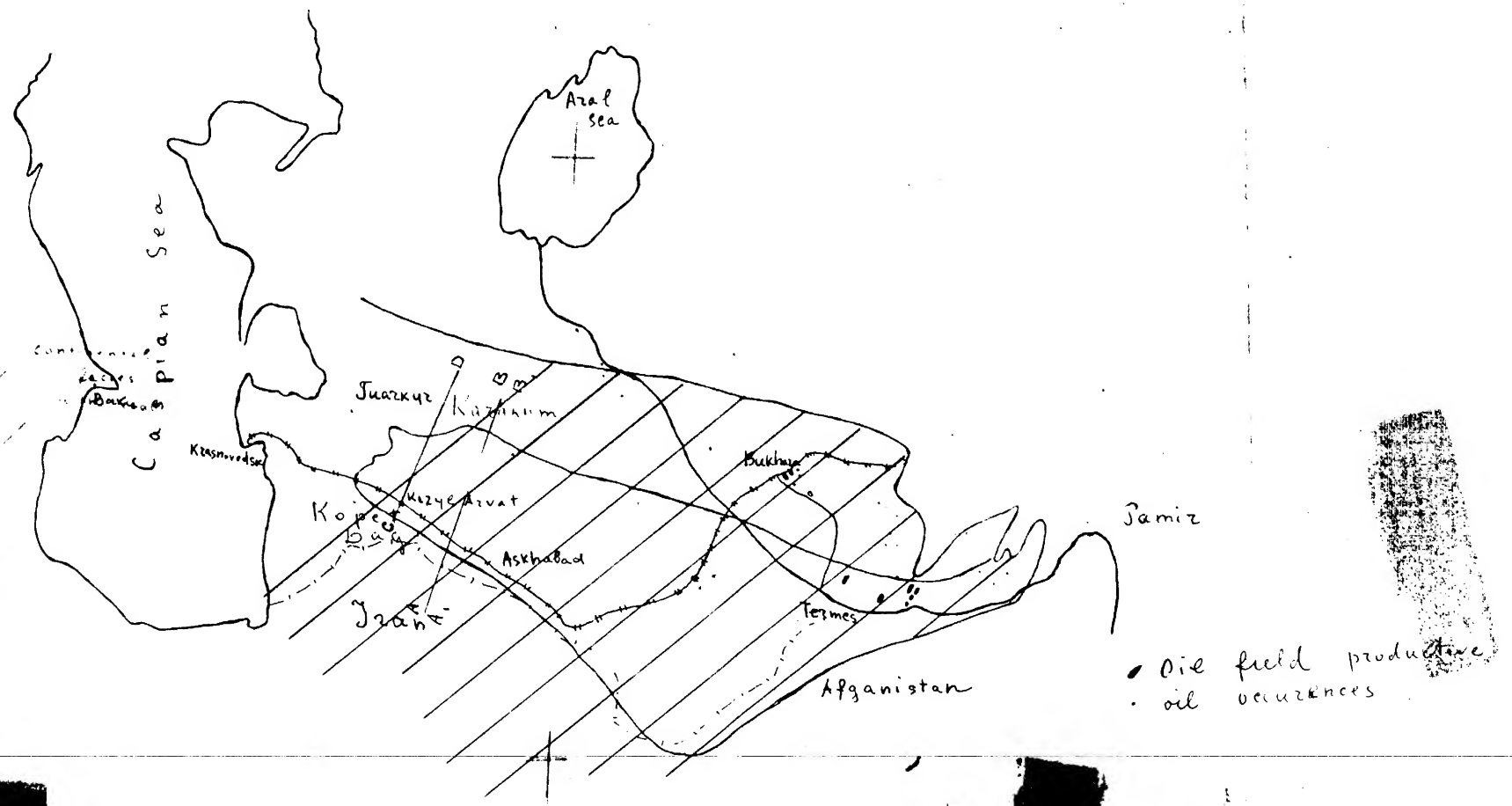
~~N° 221~~
No. 228

Turkmania

Lower Jurassic facies

~~N° 228~~



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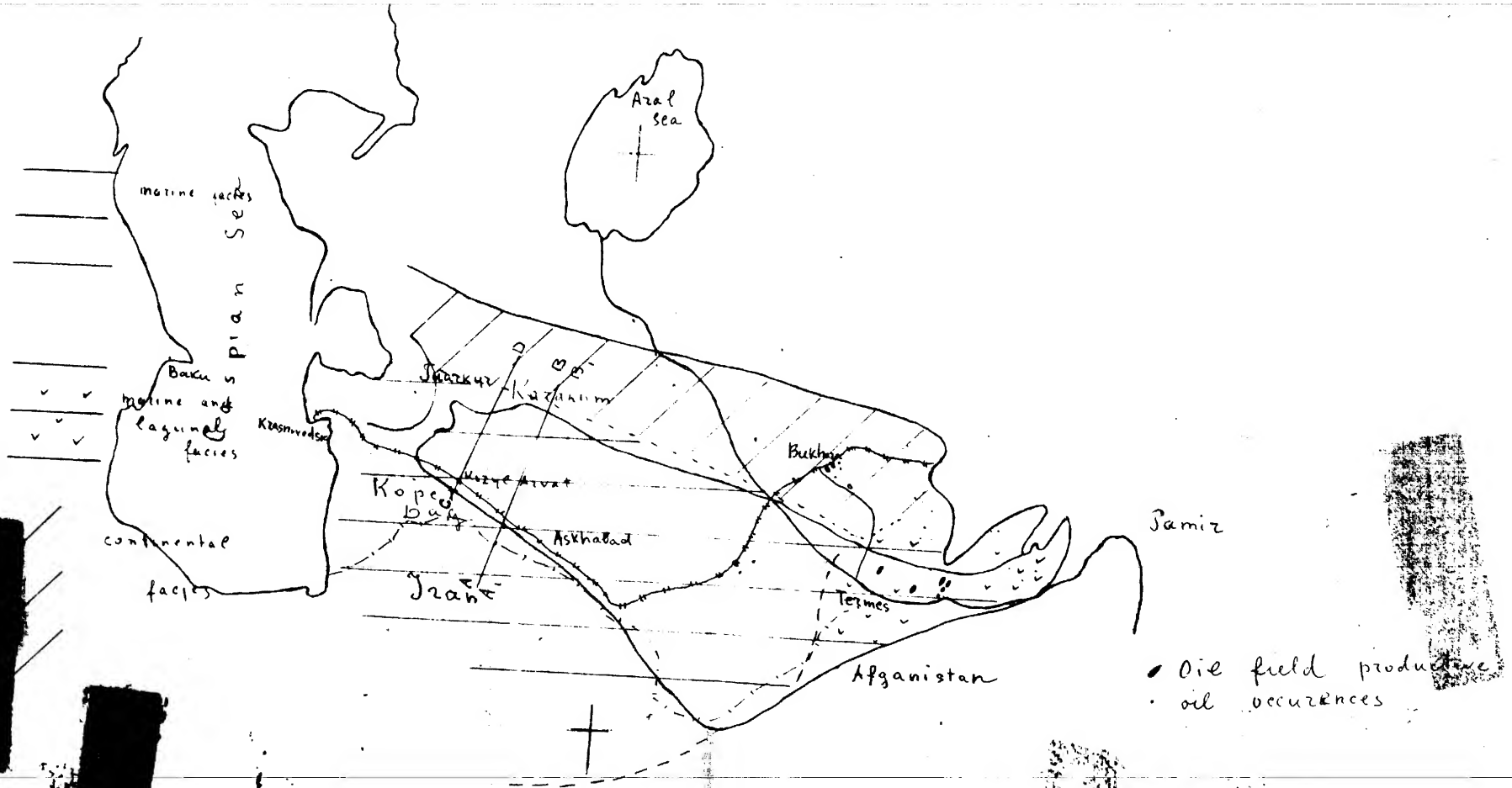
Turkmenia

Upper Jurassic facies

~~N° 229~~

No. 229



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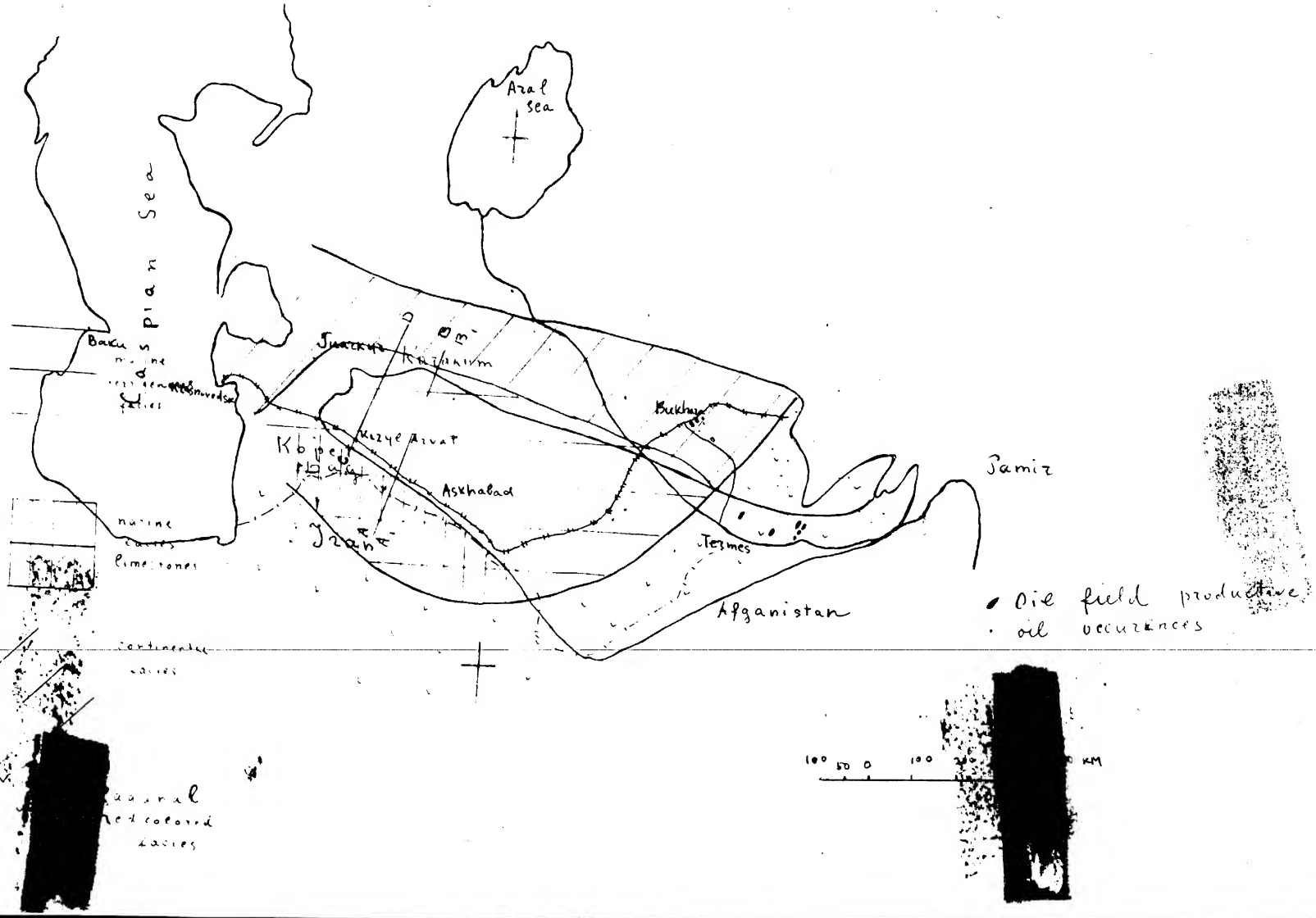
No. 230

~~No. 221~~

Turkmania

Cretaceous facies ~~No. 230~~



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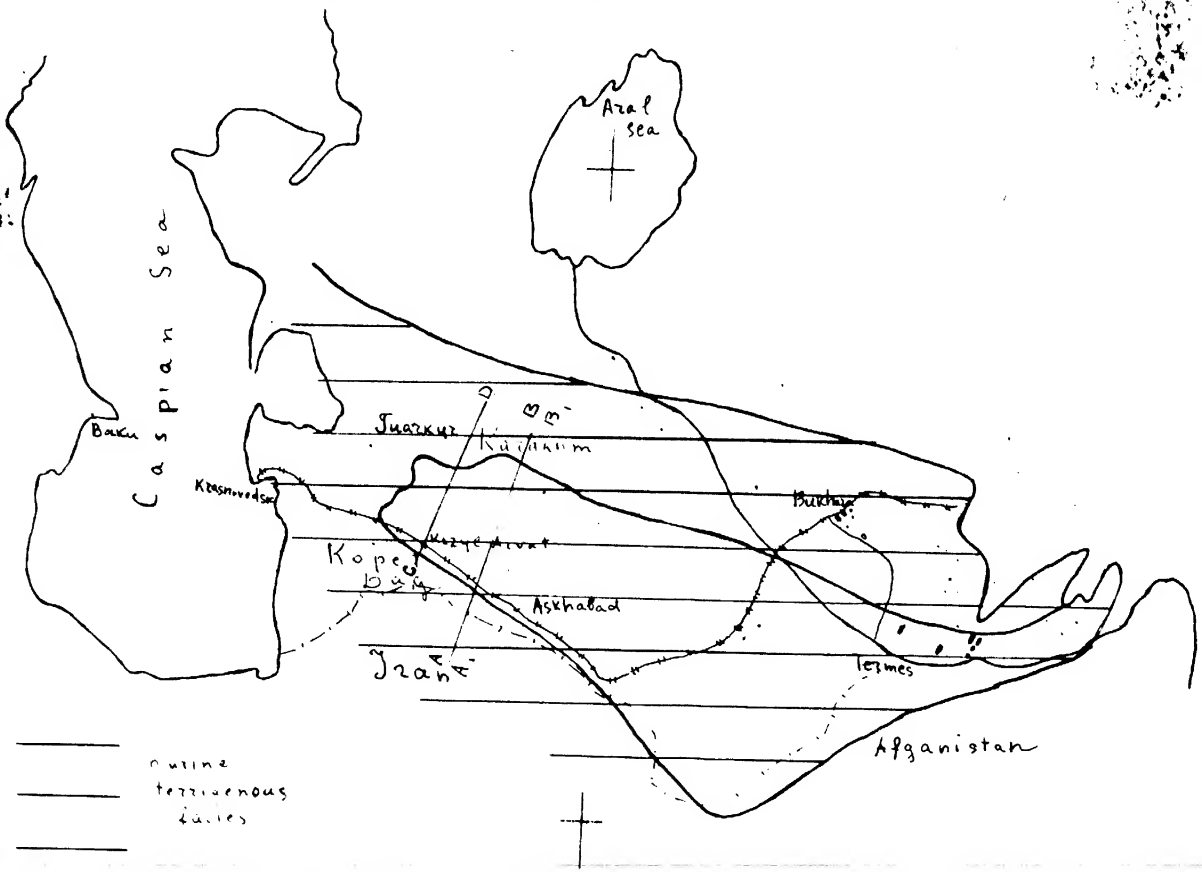
~~No. 231~~
No. 231

Turkmania

Apt + Alb + Cenomanian facies

~~No. 231~~



• Oil field productive
· oil occurrences

100 50 0 100 200 300 400 KM

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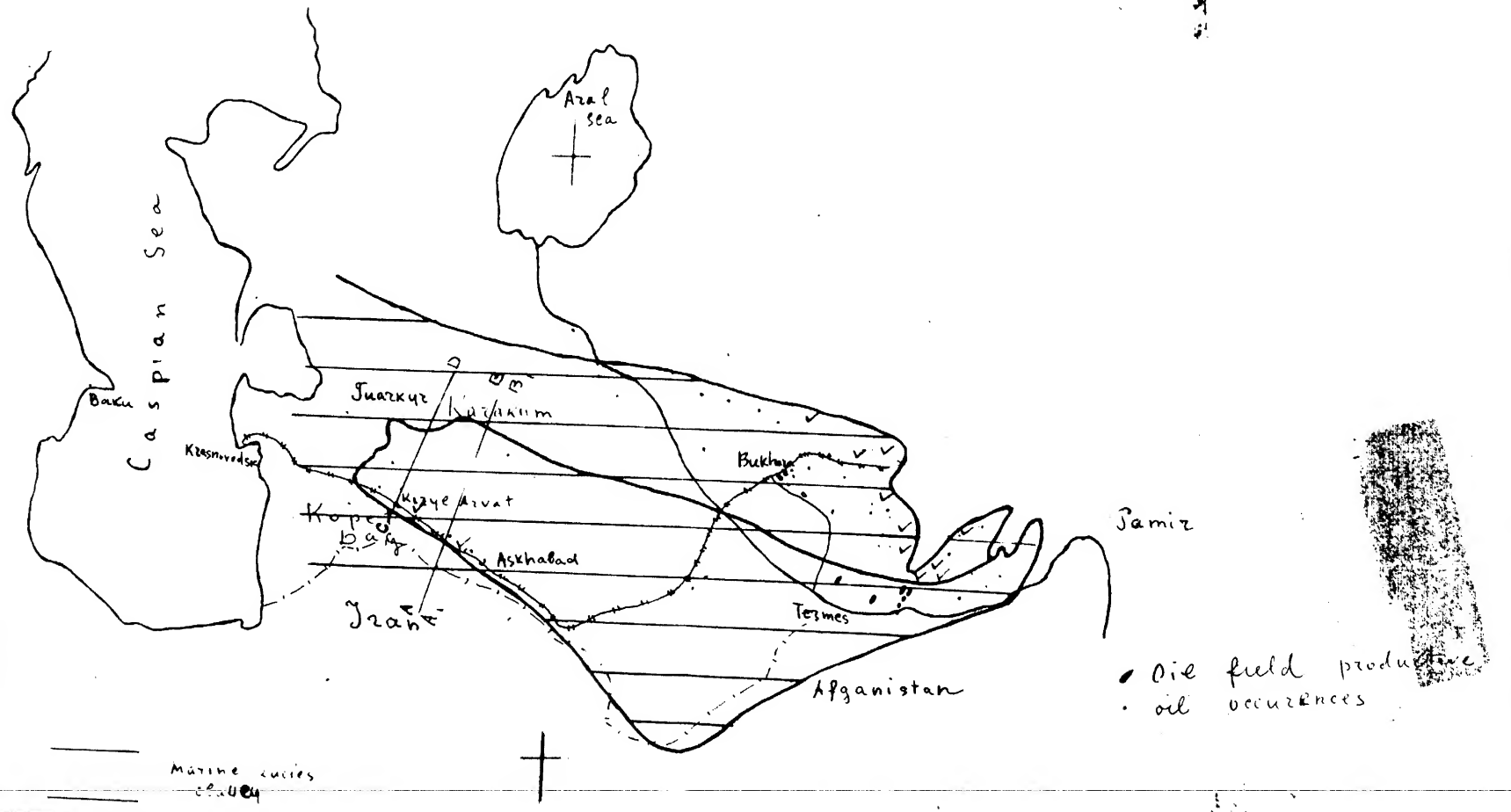
~~No. 221~~

No. 232

~~No. 232~~

Turkmenia

Paleogen facies



Marine facies clayey

marine facies clayey with Paguna microfossil evaporite facies and some sandy beds

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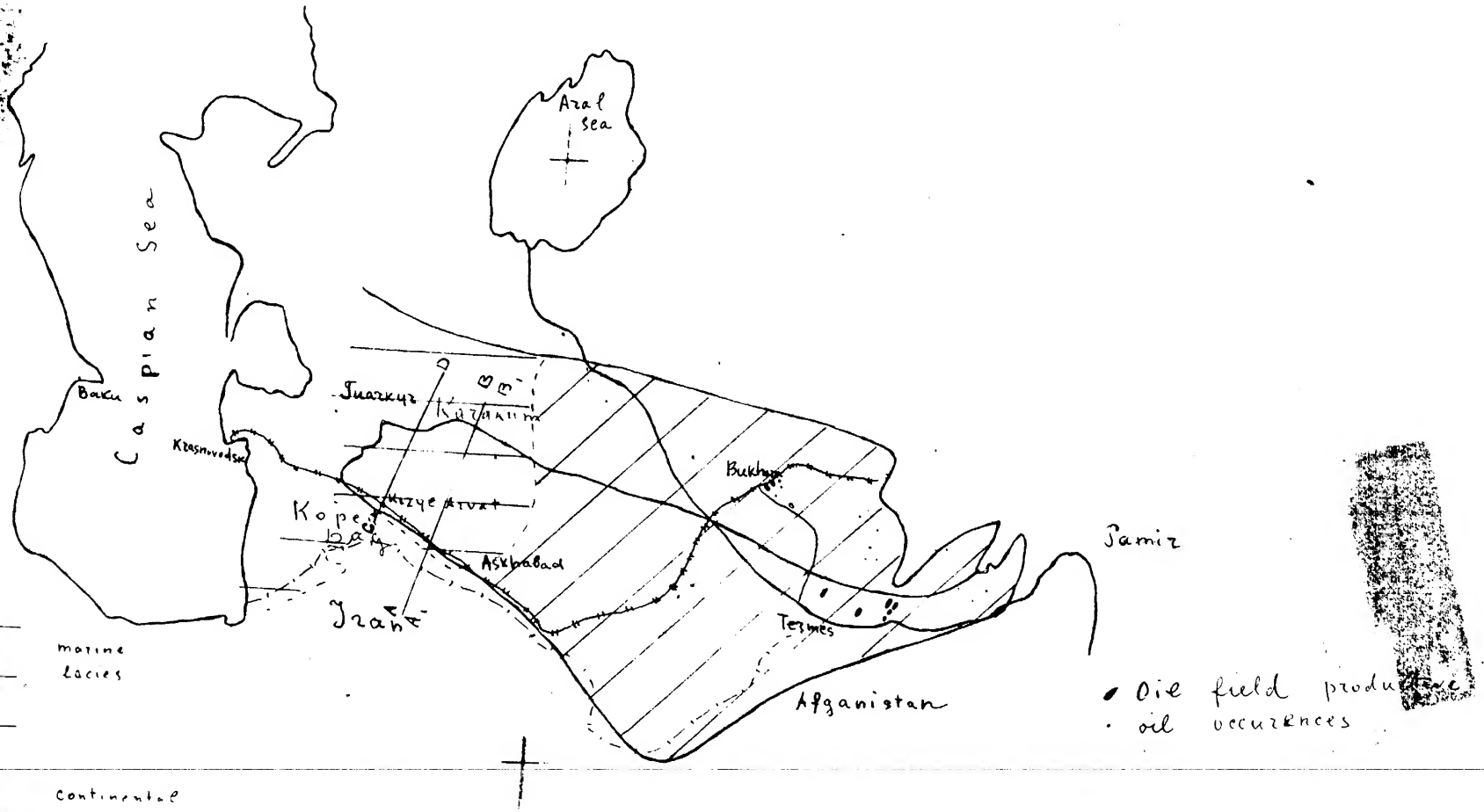
Turkmania

~~N° 221~~
No. 233

~~N° 233~~

Miocen facies



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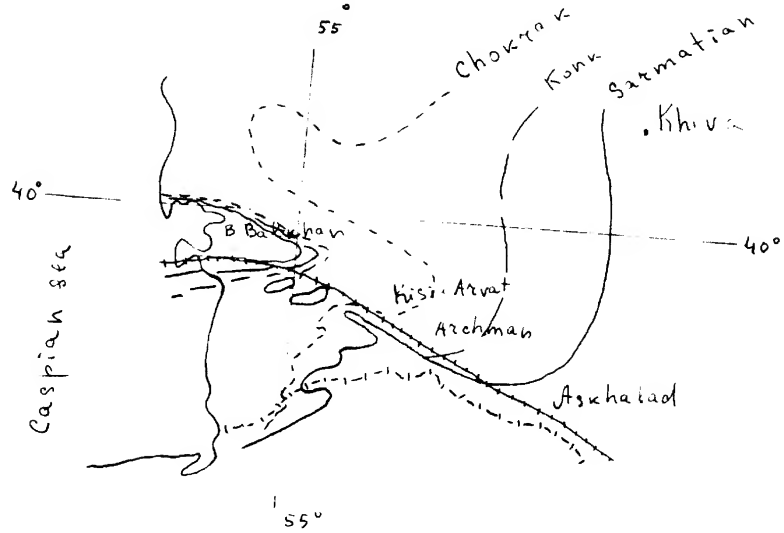
№ 234

Boundaries of Miocene Transgression



Miocene { Sarmatian transgression (from West) 10 0 100 100 km
Konk "
Chokrak "

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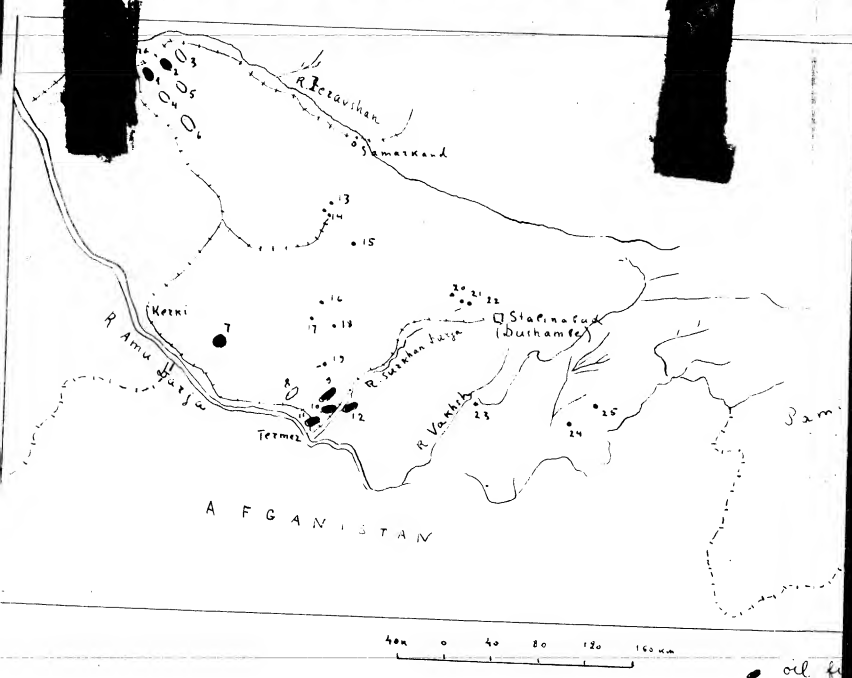
East Part of Turkomanian Trough



1 Pulet-aral
2 Kodjakab
3 Karaus
4 Karaul Kuyu
5 Mama Gaurdak
6 Sazytagan
7 Gaurdag (productive)
8 Keeit
9 Khaidak (productive)
10 Ajaknurgan (productive)
11 Uchkisik (Termez) (productive)
12 Koxaity (productive)
13 Kifal
14 Shakhrisyabs
15 Shurassak
16 Mochai
17 Derbent
18 Baisun
19 Shirazlyk astan
20 Keratag
21 Bangmyan
22 Khochilar
23 Kuzgan tuba
24 Kugeta
25 Mumynak

in drill[illegible]

oil fi[illegible]

ILLEGIB

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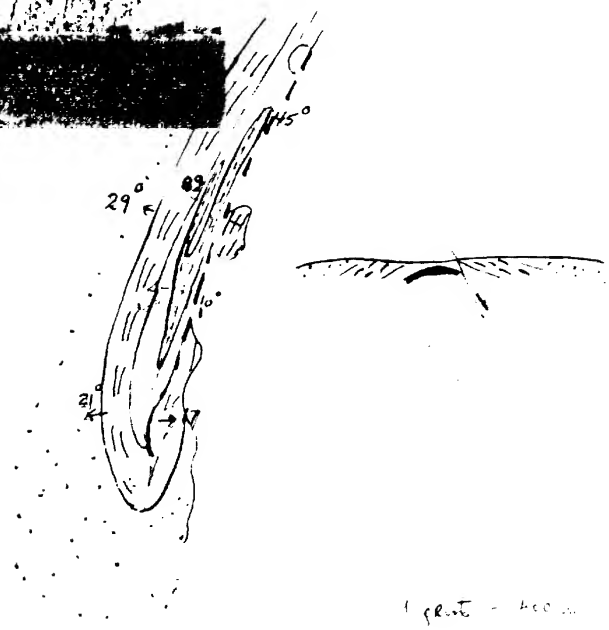
[redacted]



1 plate - 400 ...

∵ Oligocen sandy

= Oligocen clayly

middle and upper Eocen

— lower Eocen

[redacted]

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North slope of Turkomanianian Trough Oil seepages №237

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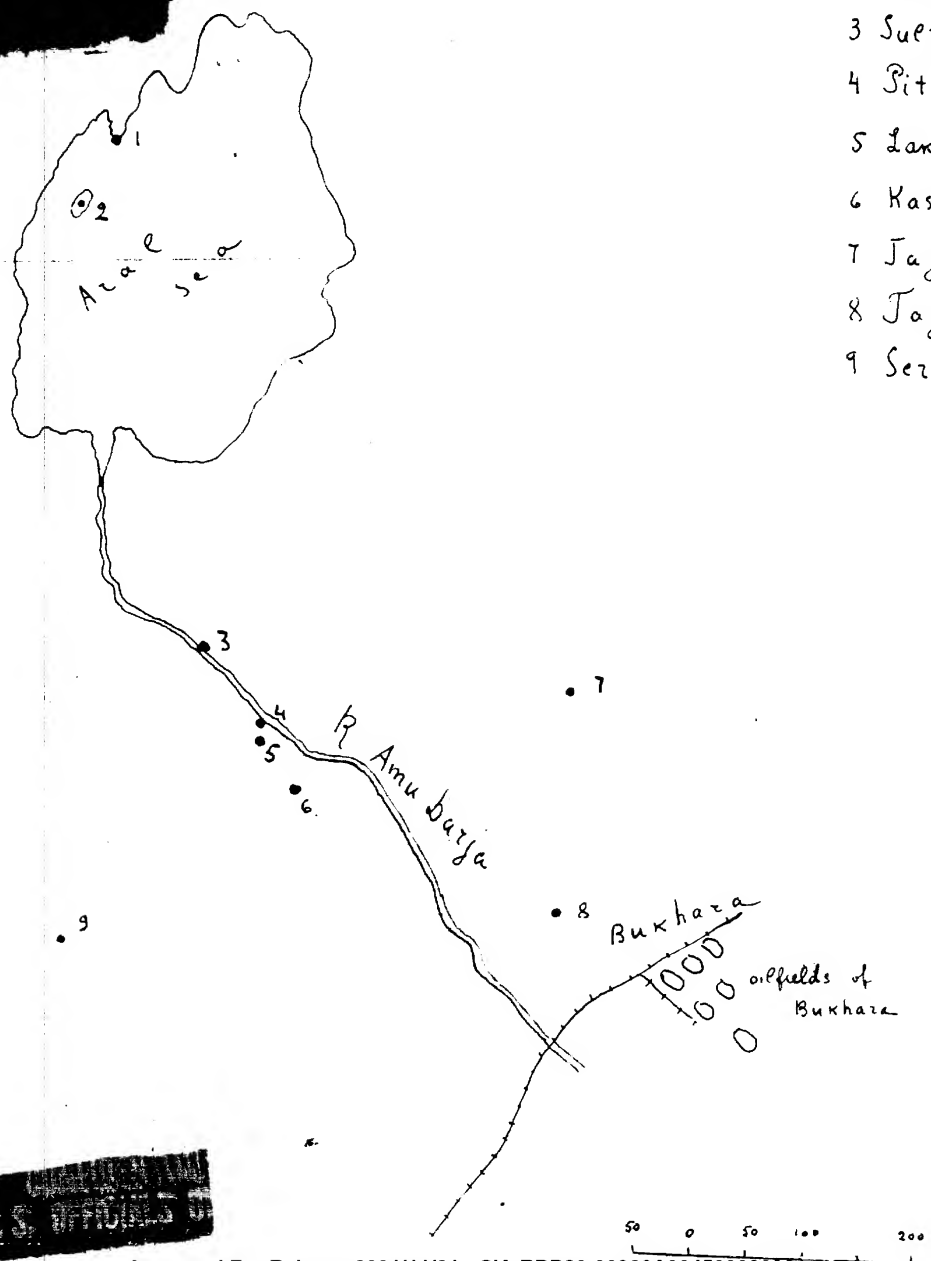
[redacted]

1 Kulandy
2 Island Vozrojdenia
3 Sultan uiz dag
4 Pitnjak
5 Lake Sultan Sandjar
6 Kasha Bulak
7 Tajdy
8 Tajdy
9 Sernye Bugzi



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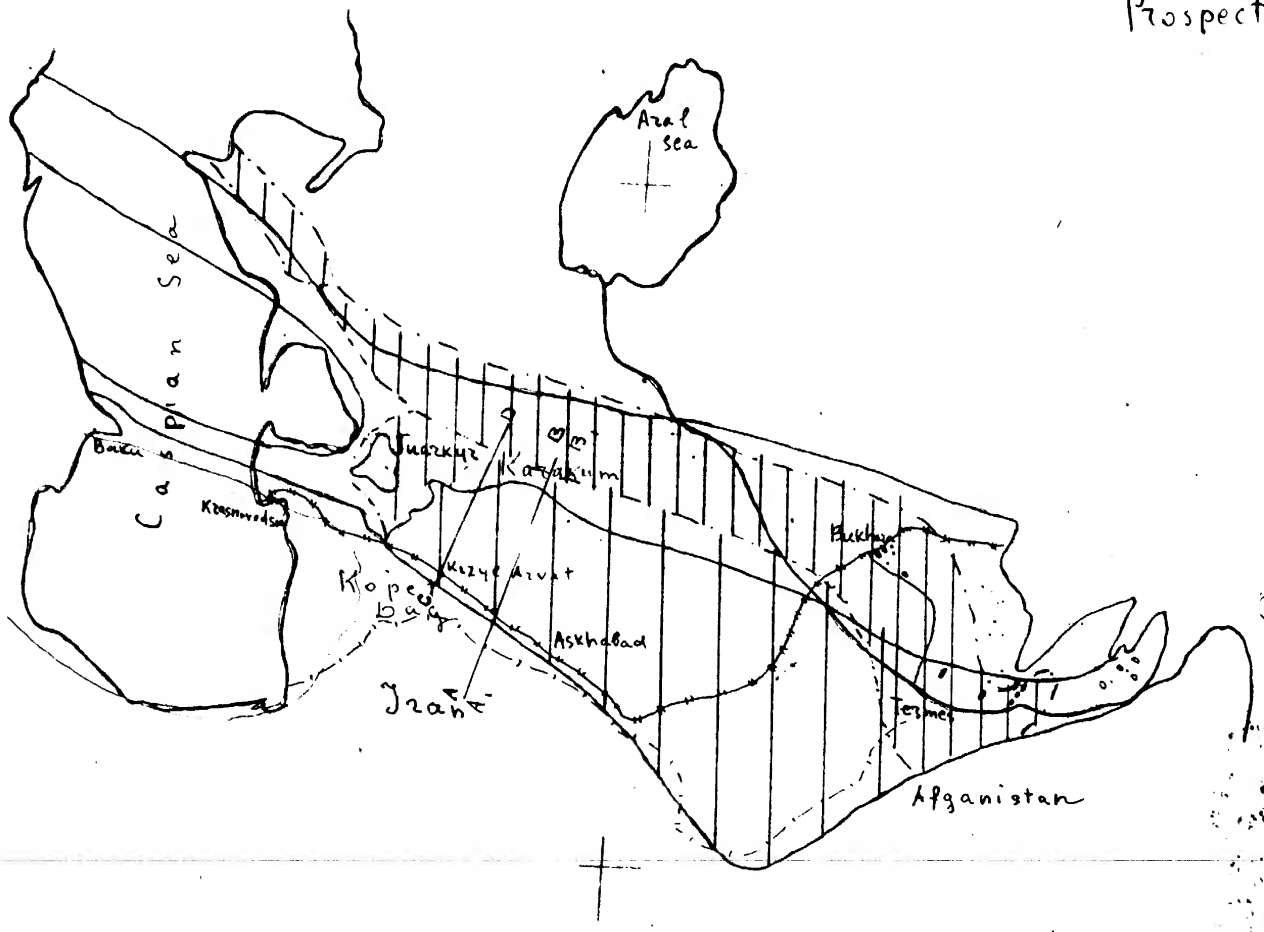
Turkomania

~~No. 221~~
No. 238

Prospective area of Turkomania Trough



Pamir

Die field produ
oil occurences

very good
proved
drilling
production

100 50 0 100 200 300 400 km

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[redacted]

Baku District

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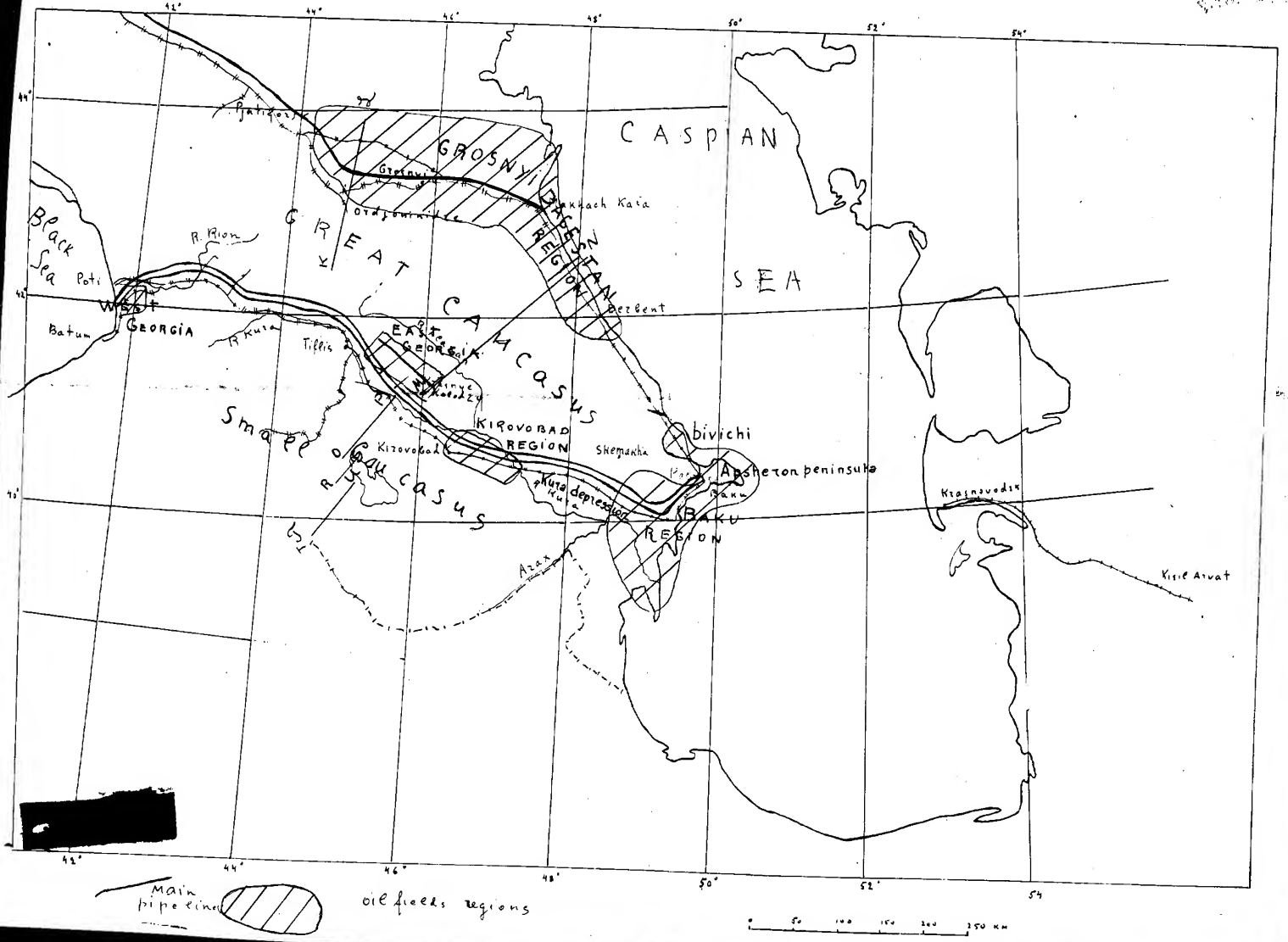
Kura Depression

N° 239



[redacted]

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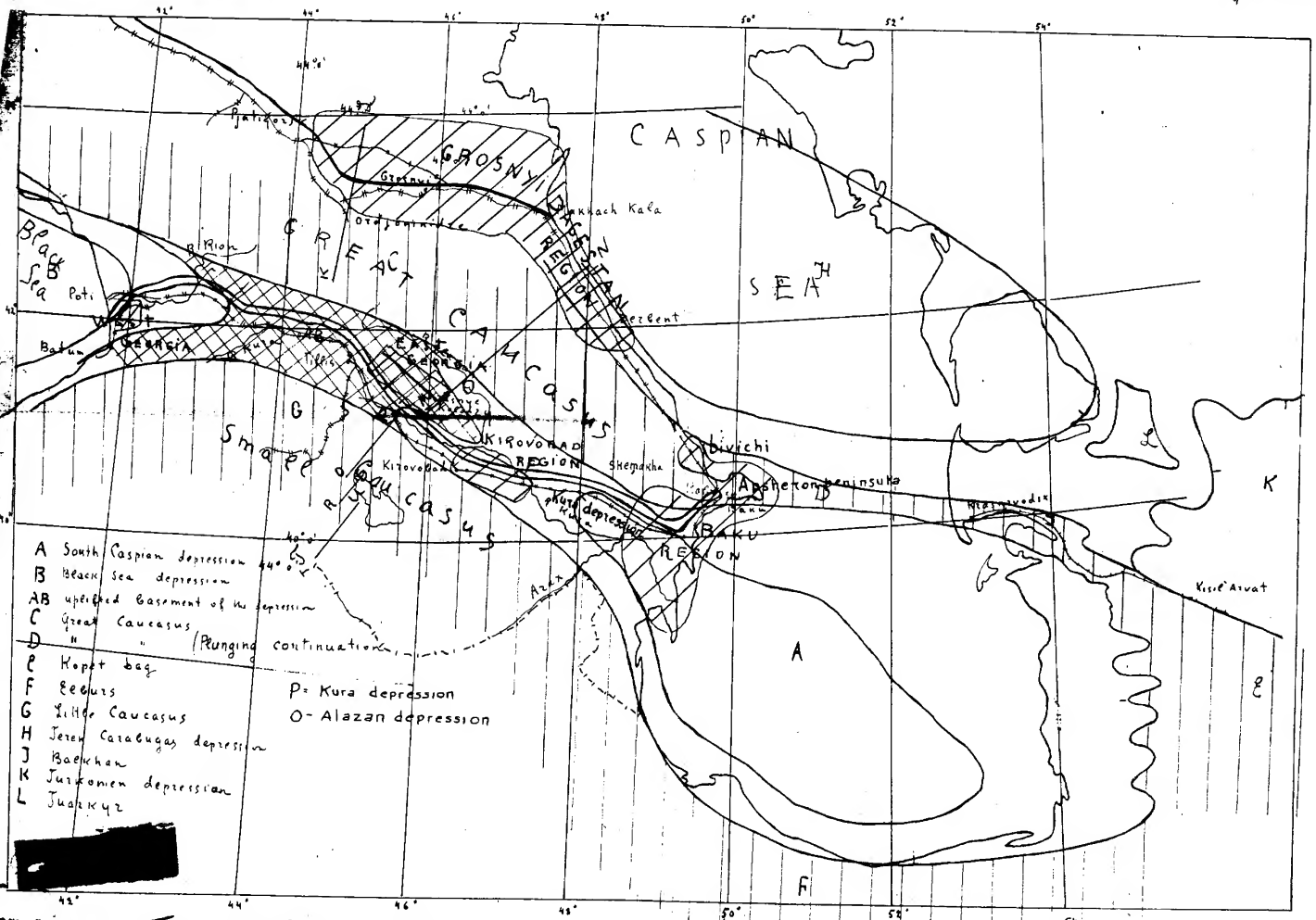
General Structure ~~No 239~~ ~~No 240~~ No 240

Baku district

Kura Depression



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Correlation of Tertiary

N°241

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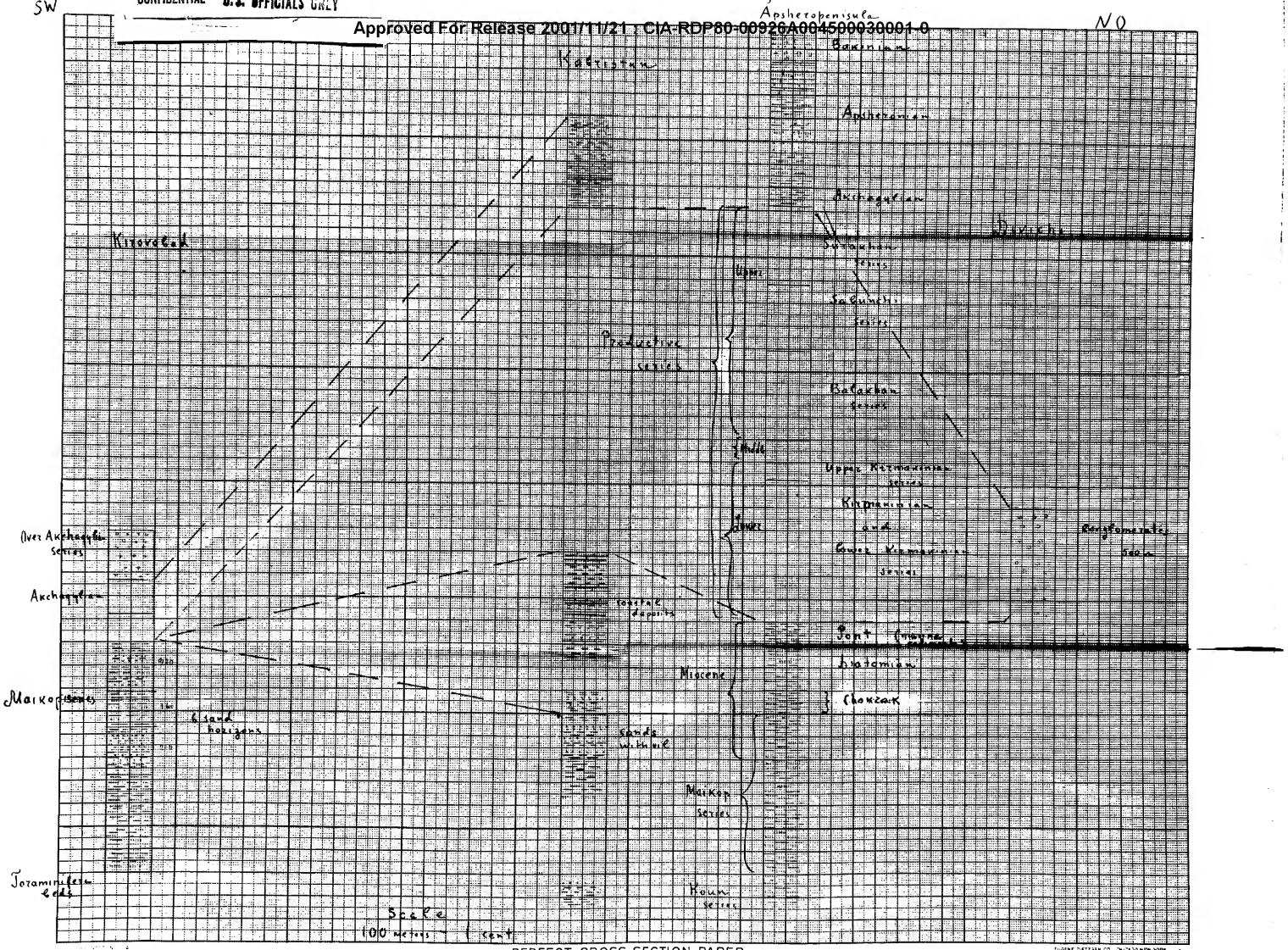

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MILLIMETERS
N° 338

Area of development of Productive series 120.000 km²

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Correlation of Tertiary

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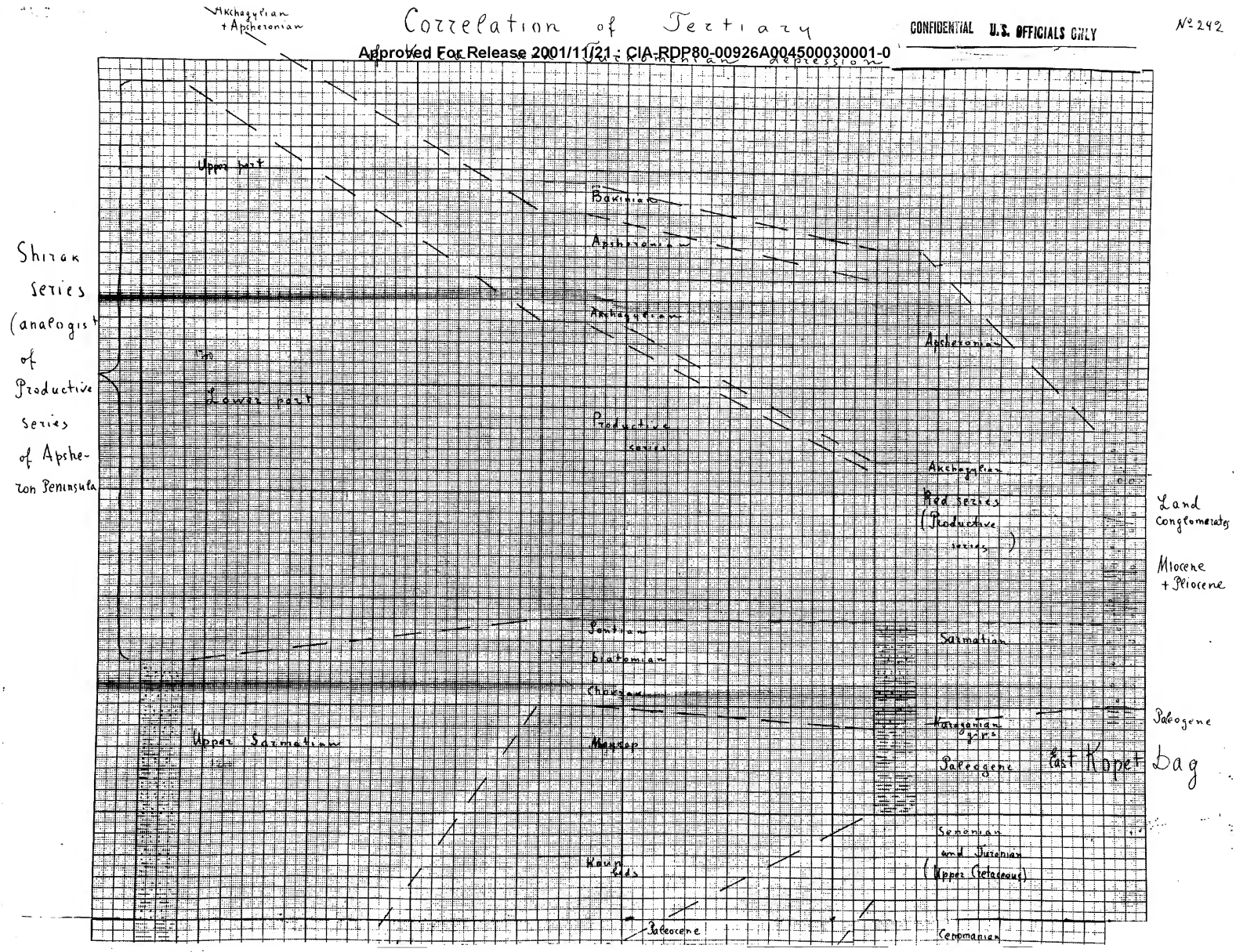
№ 242



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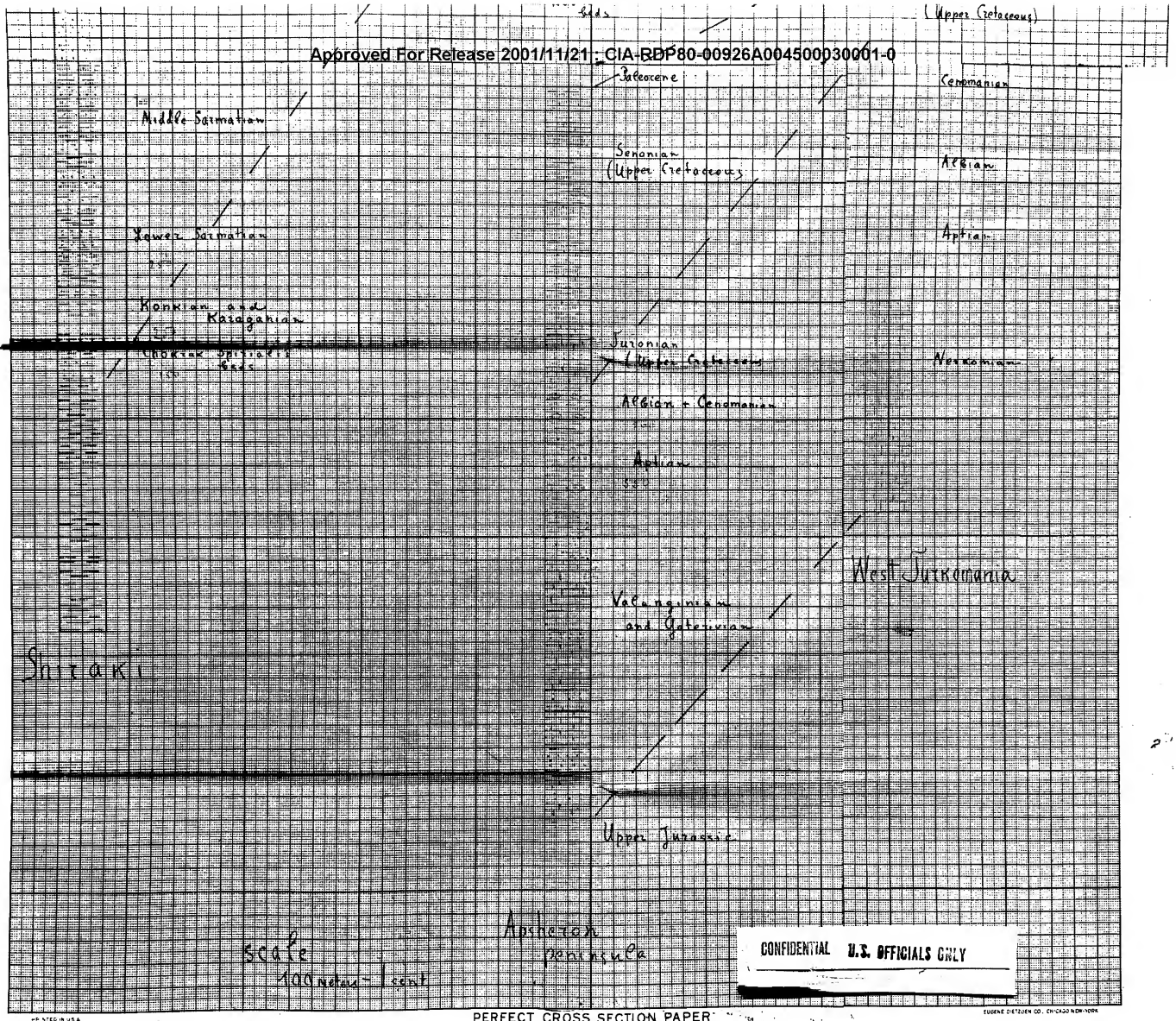

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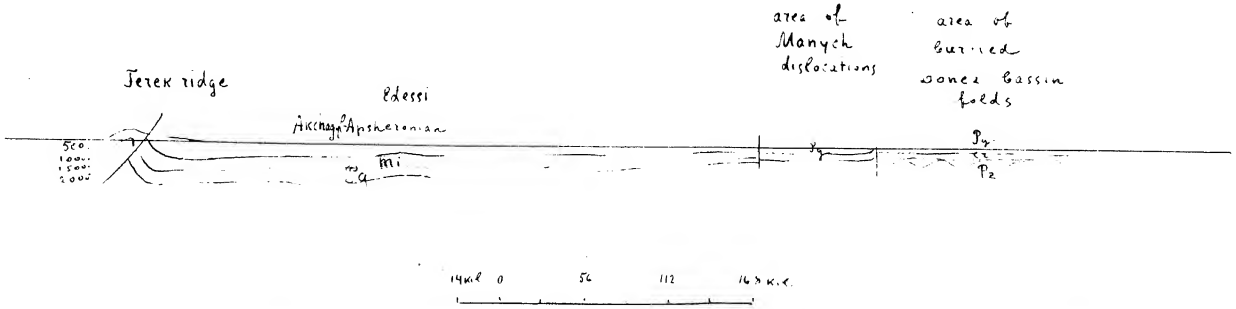
N° 202

Grosnyi

Cross section Between Terek ridge and buried Donez basin

S



N

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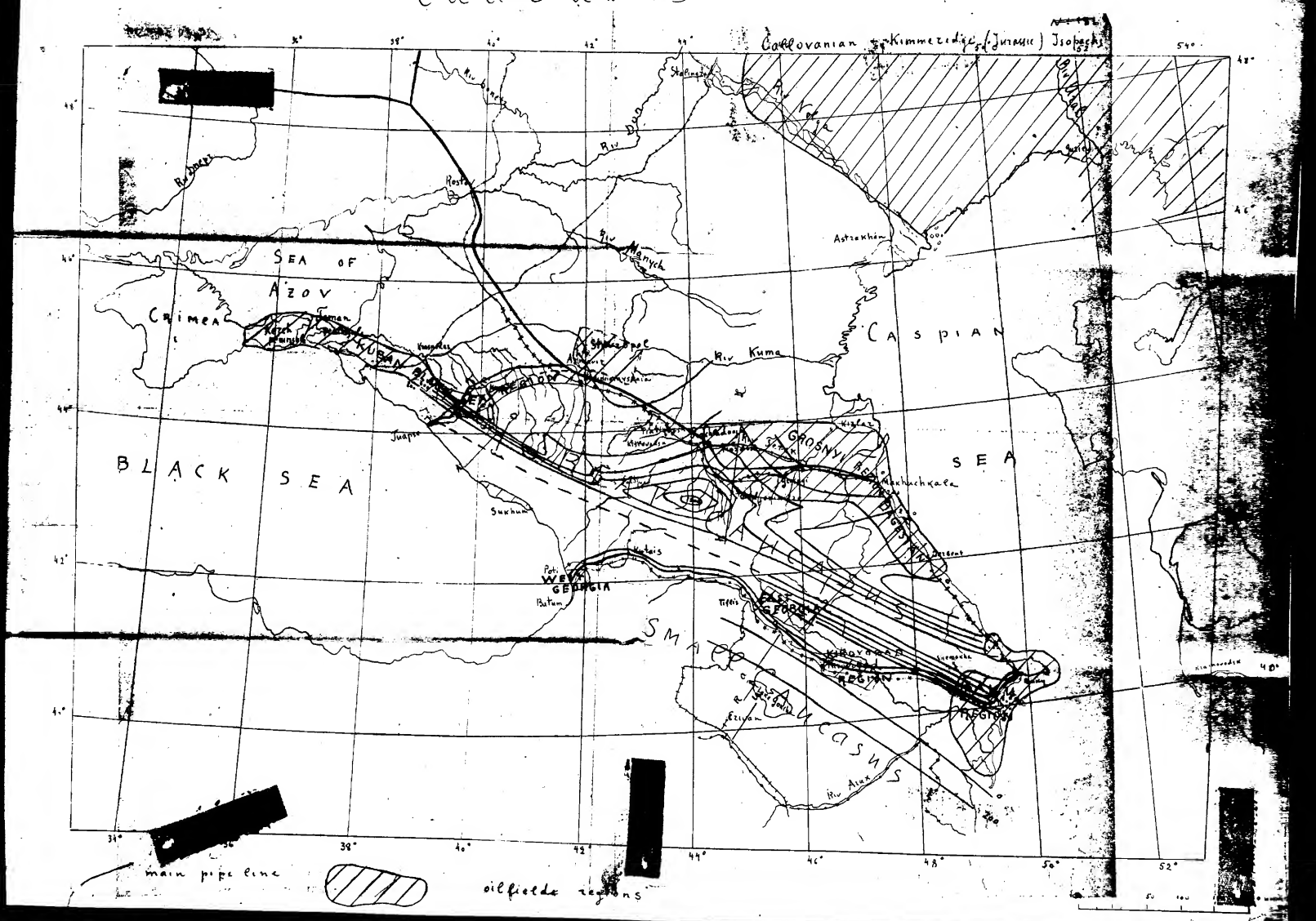
No. 181



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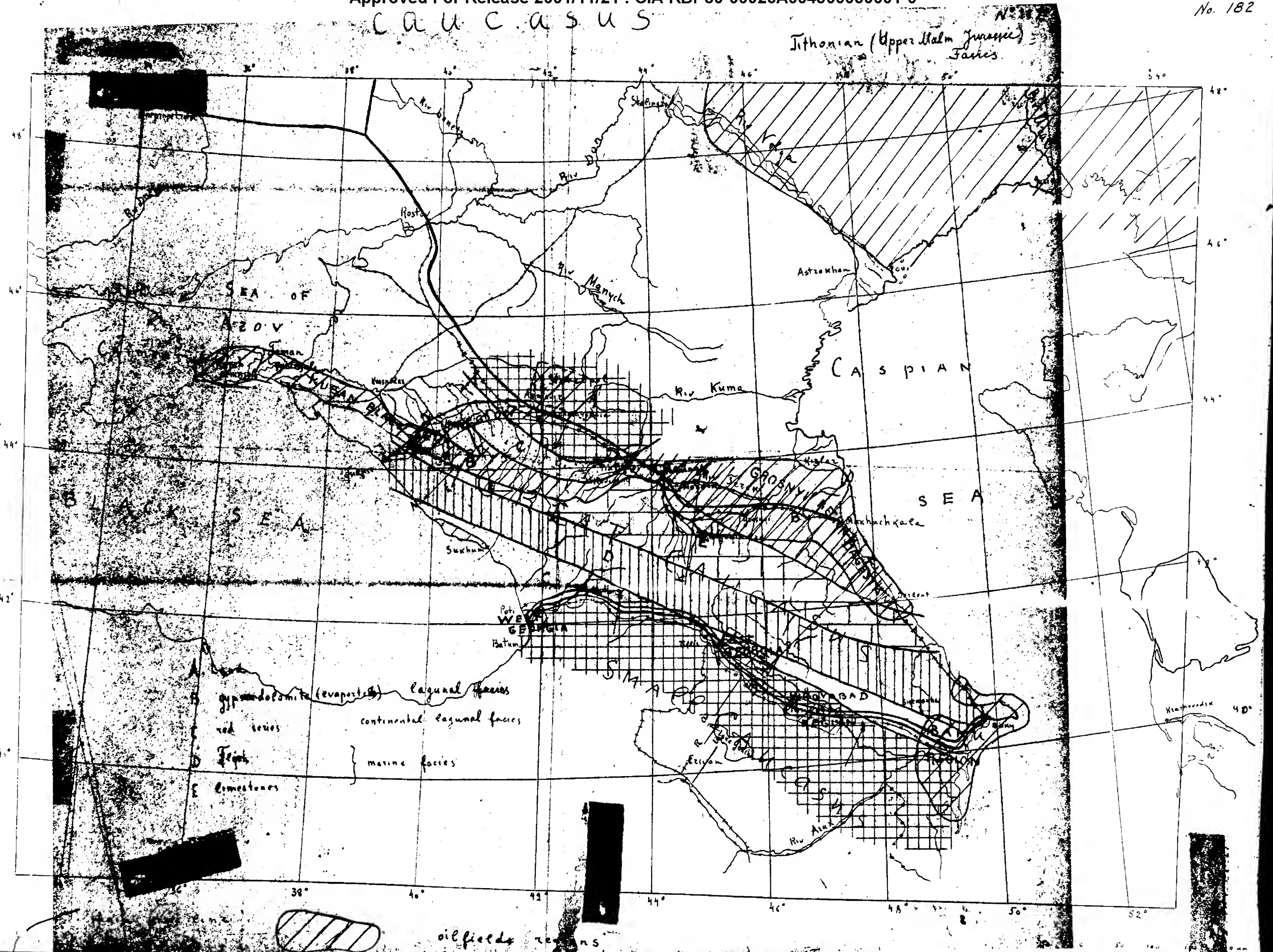
Jithonian (Upper Malm Jurassic) Facies

[redacted]



A. [illegible]

B. gyp dolomite (evaporites) lagunal facies

C. red series continental lagunal facies

D. Flysch } marine facies

E. limestones

oilfields regions

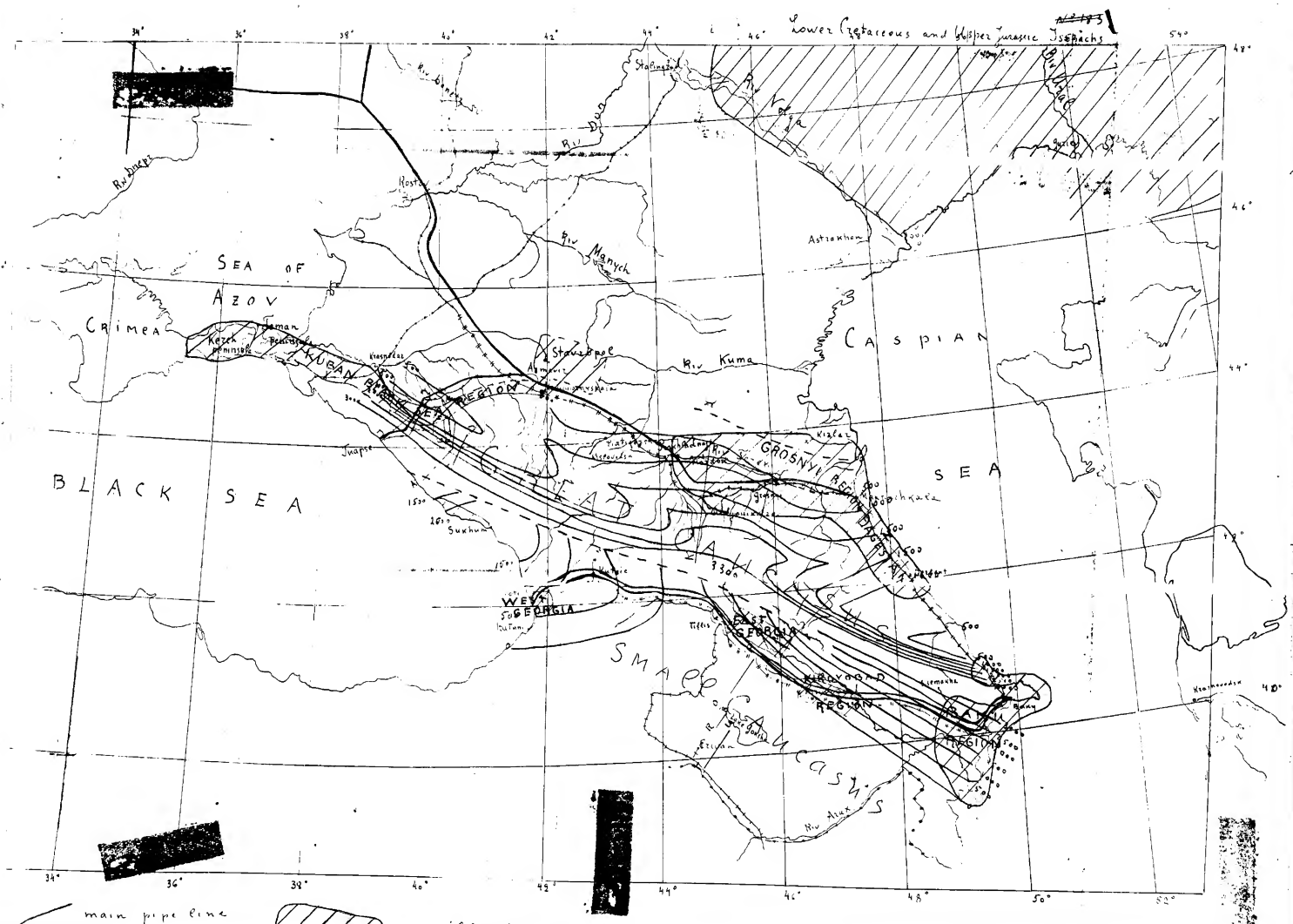
[redacted]

[redacted]

No. 183

CAUCASUS

Lower Cretaceous and Upper Jurassic Isopachs ~~No 183~~



[redacted]

[redacted]

[redacted]

main pipe line

▨ oilfields regions

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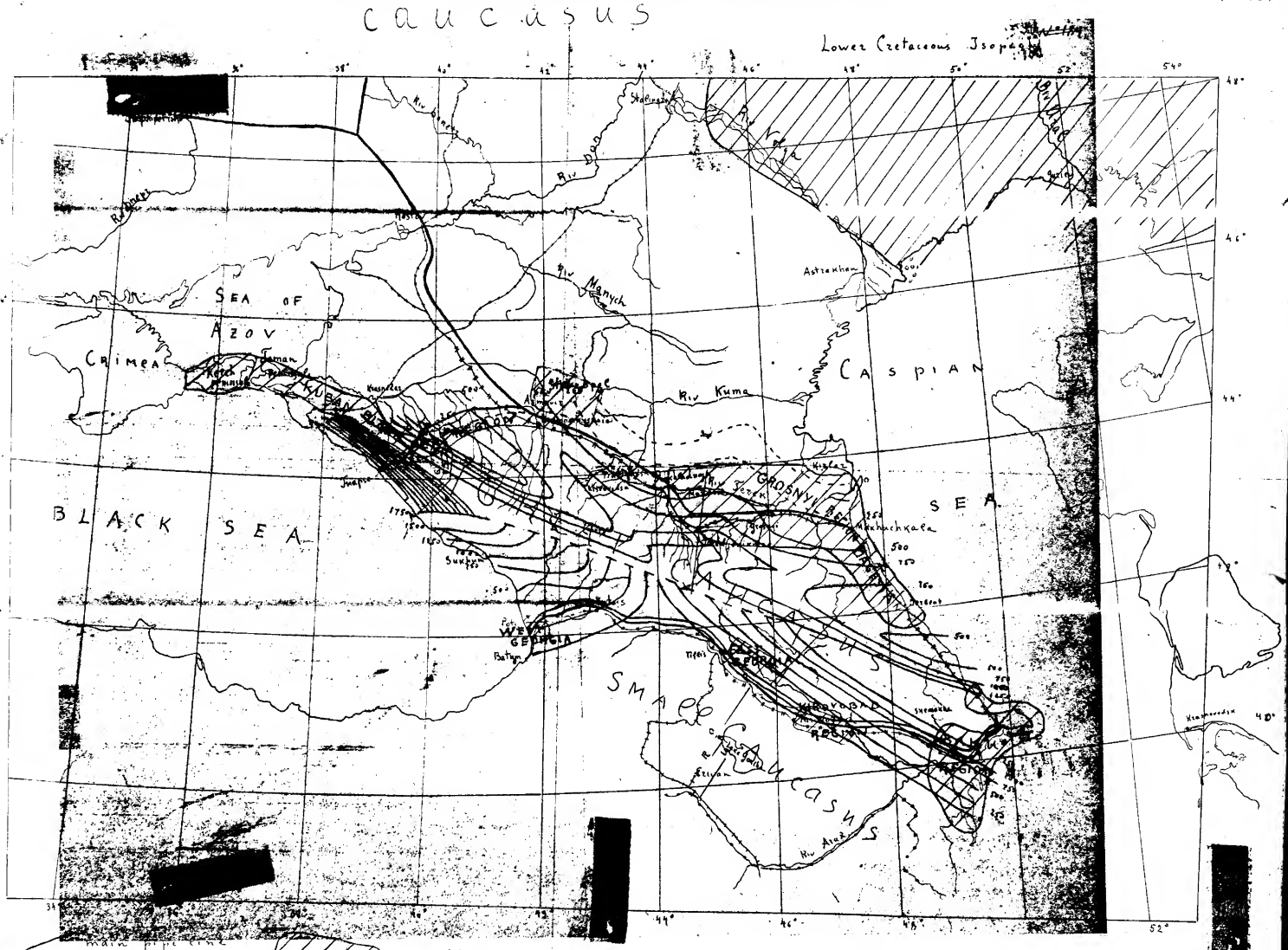
No. 184

CAUCASUS

Lower Cretaceous Isopachs



oilfields regions

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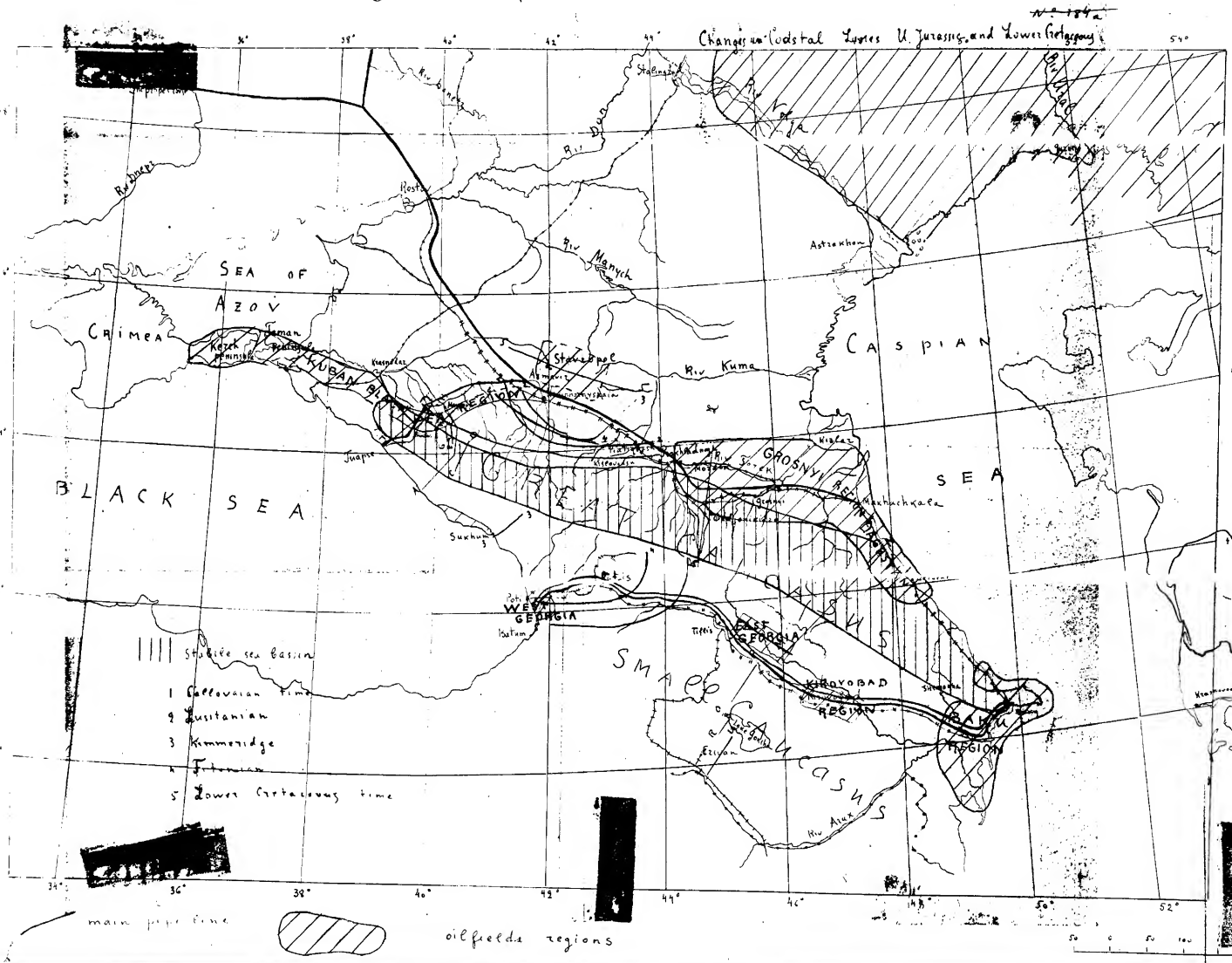
No. 184a

Caucasus

Changes on Coastal Layers U. Jurassic and Lower Cretaceous



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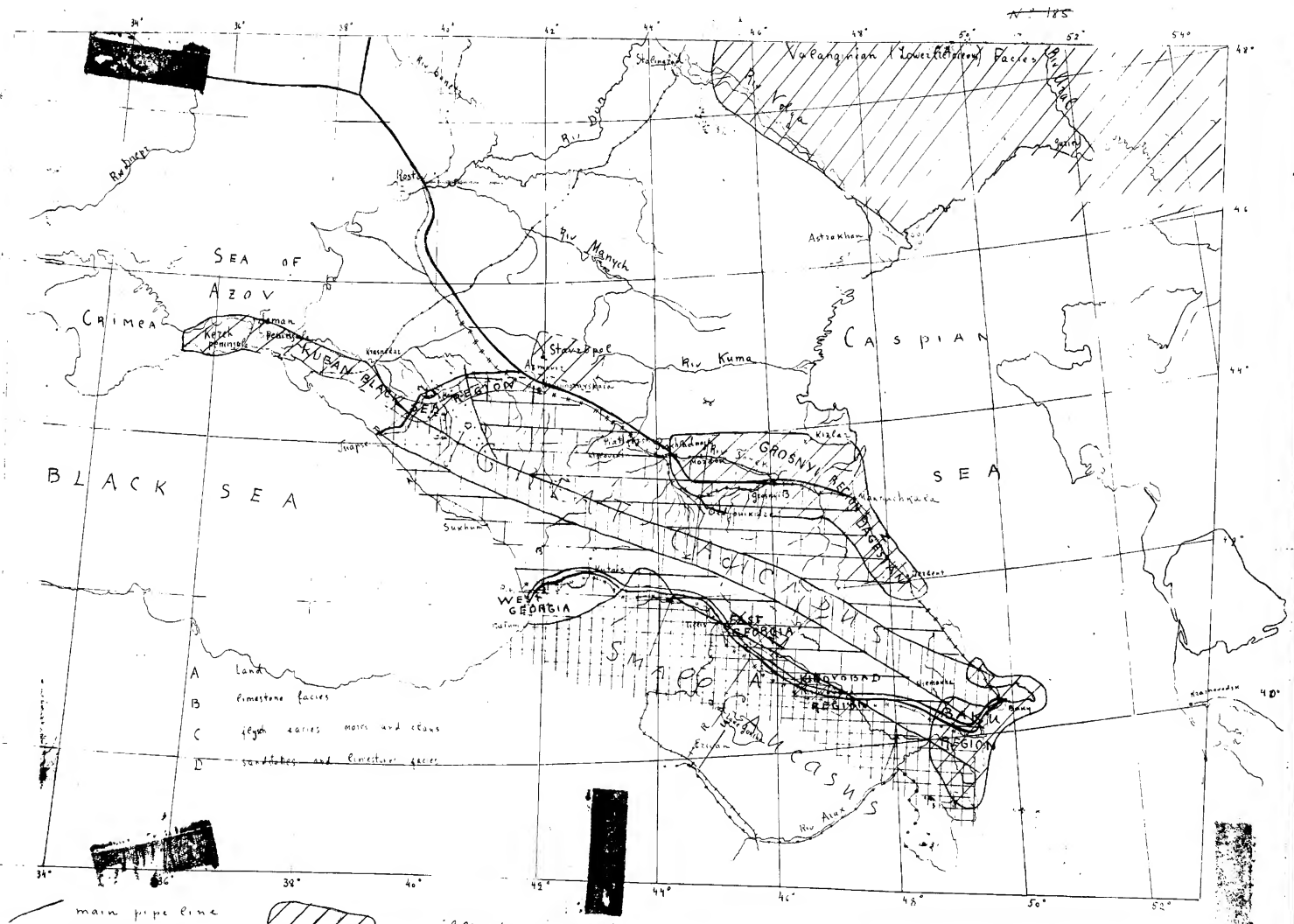
No. 185

Caucasus



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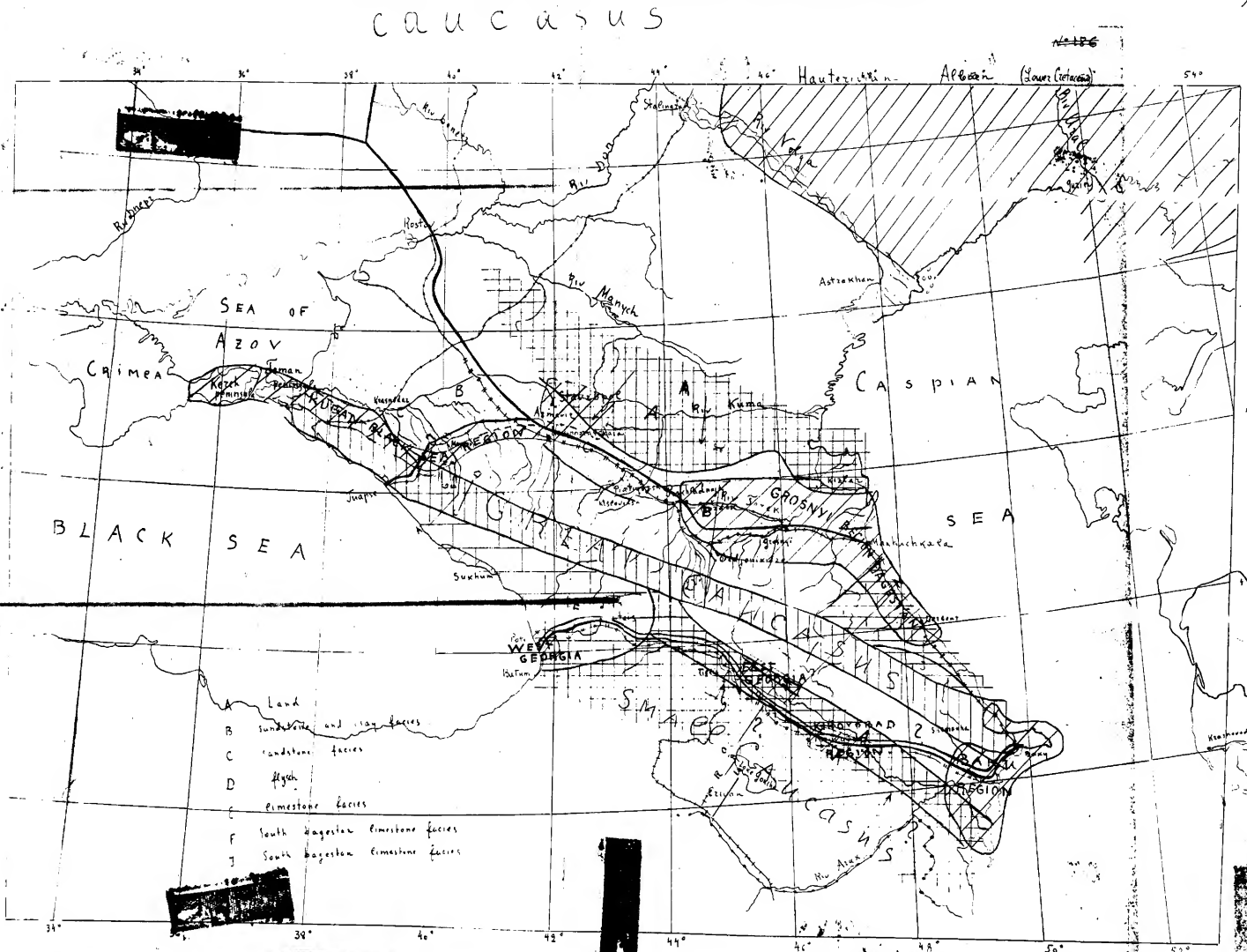
No 186

CAUCASUS



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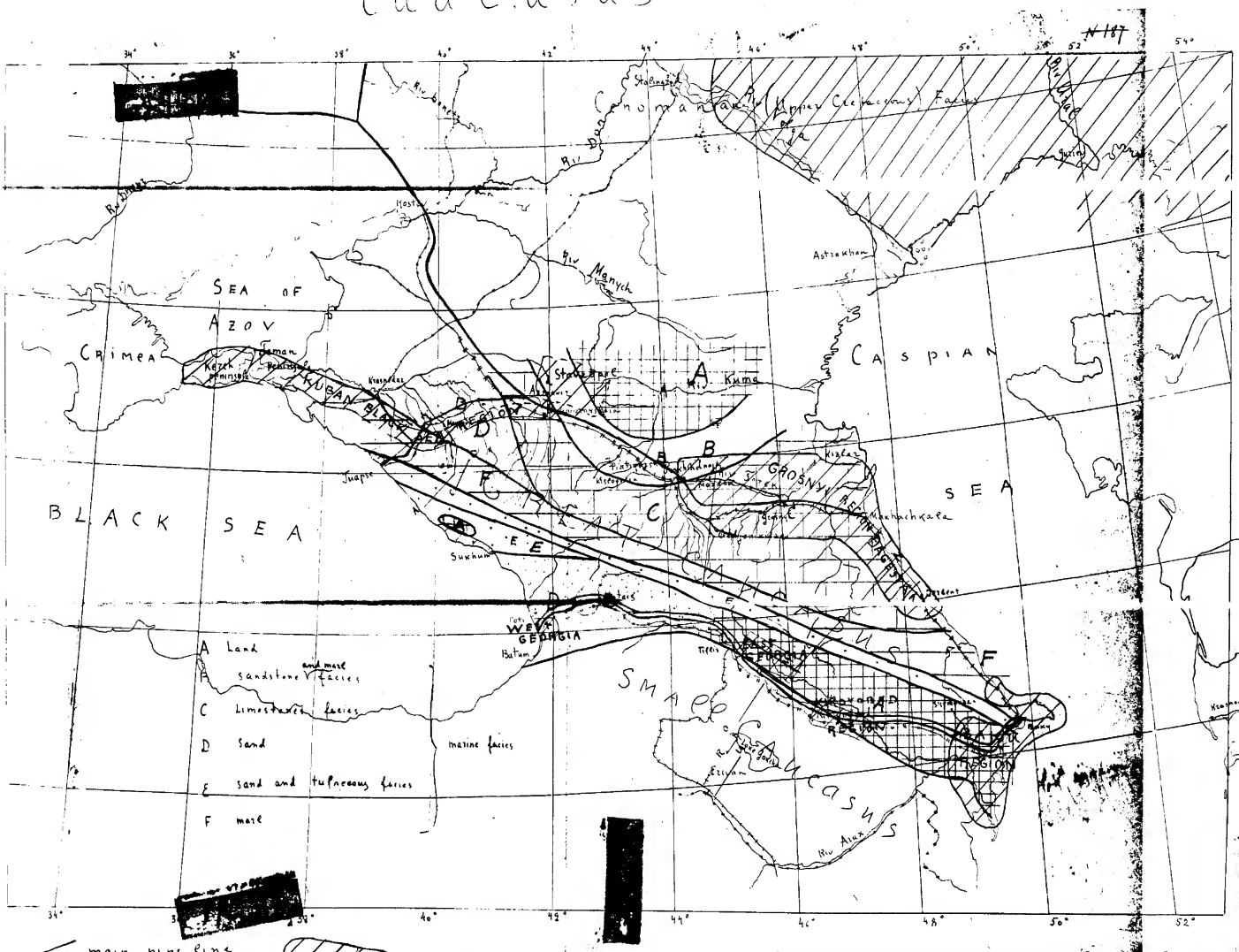
No. 187

Caucasus



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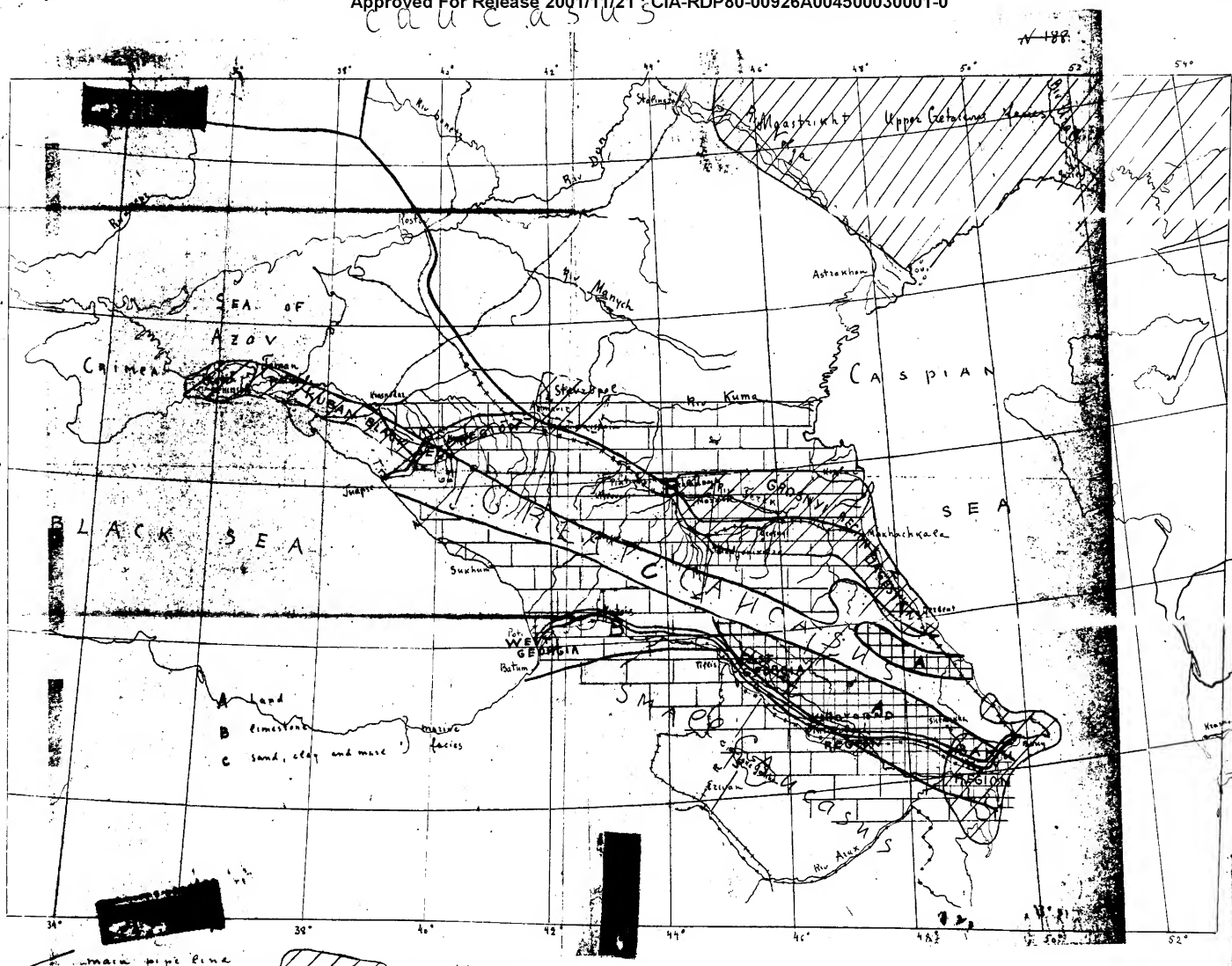
Caucasus

№ 188



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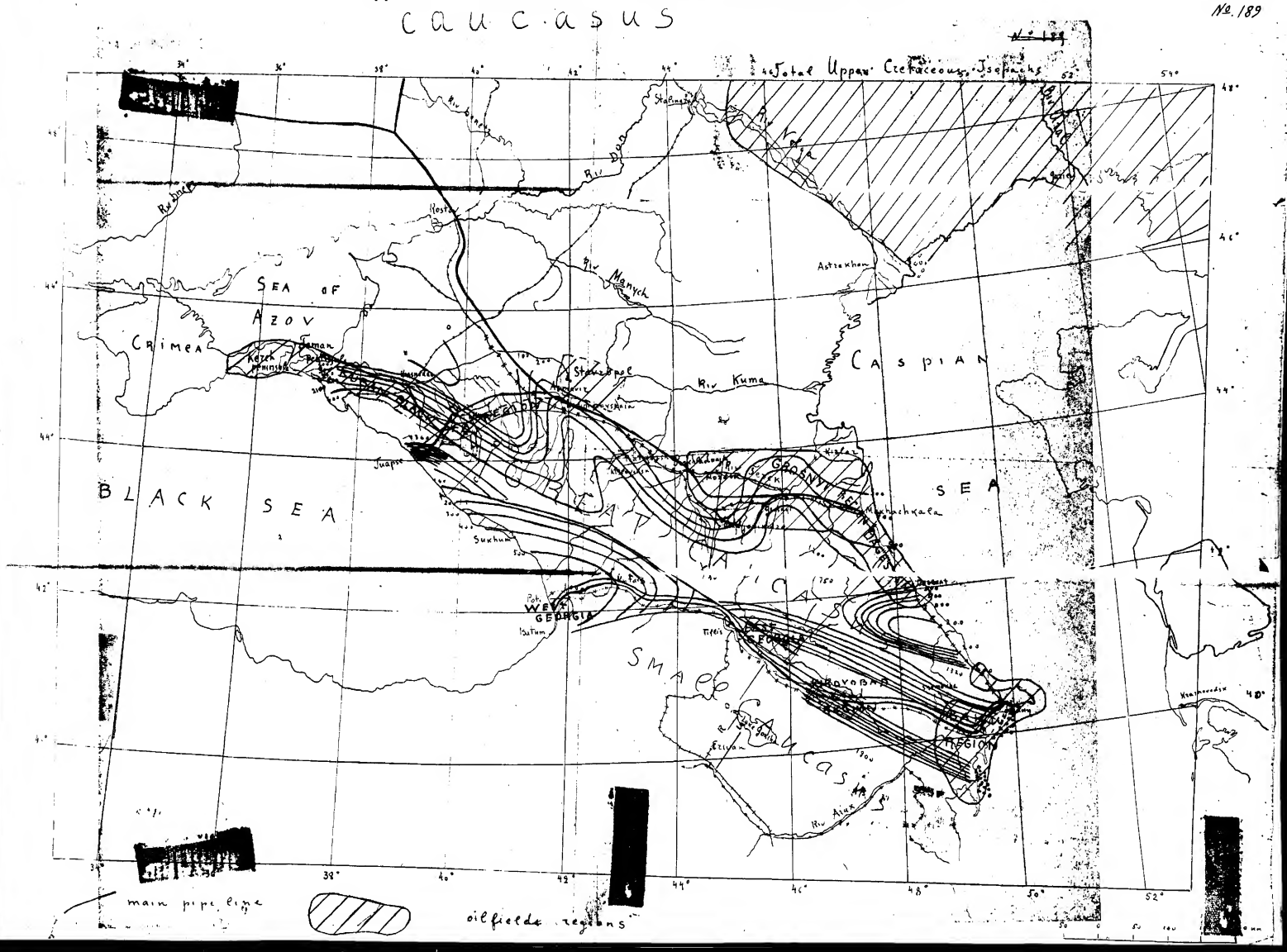
~~№ 177~~
№ 189

CAUCASUS

№ 189

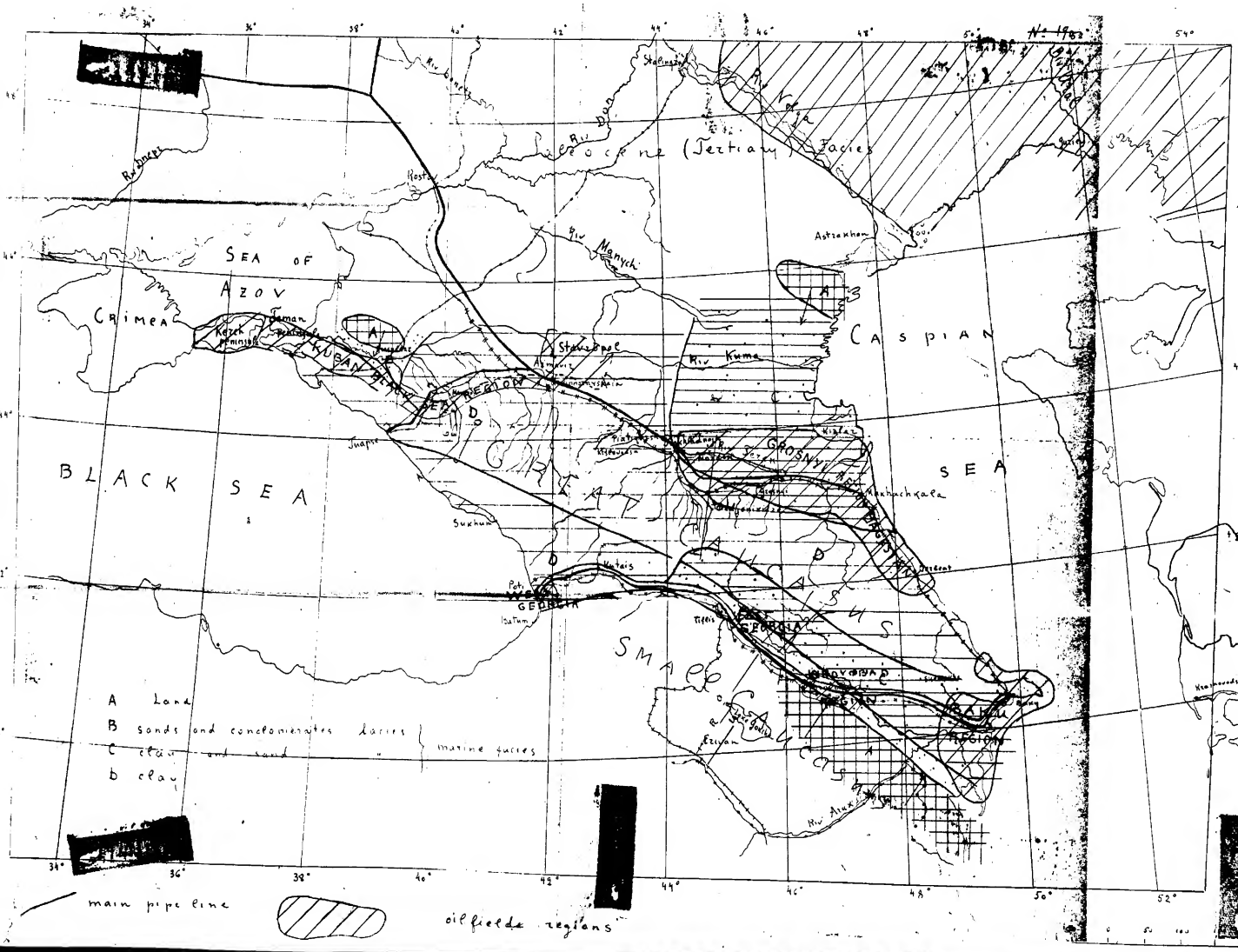
Total Upper Cretaceous Isopachs



CAUCASUS

No 190

[redacted]



A Land

B sands and conglomerates facies }

C clay and sand " } marine facies

D clay

main pipe line

oilfields regions

[redacted]

[redacted]

[redacted]

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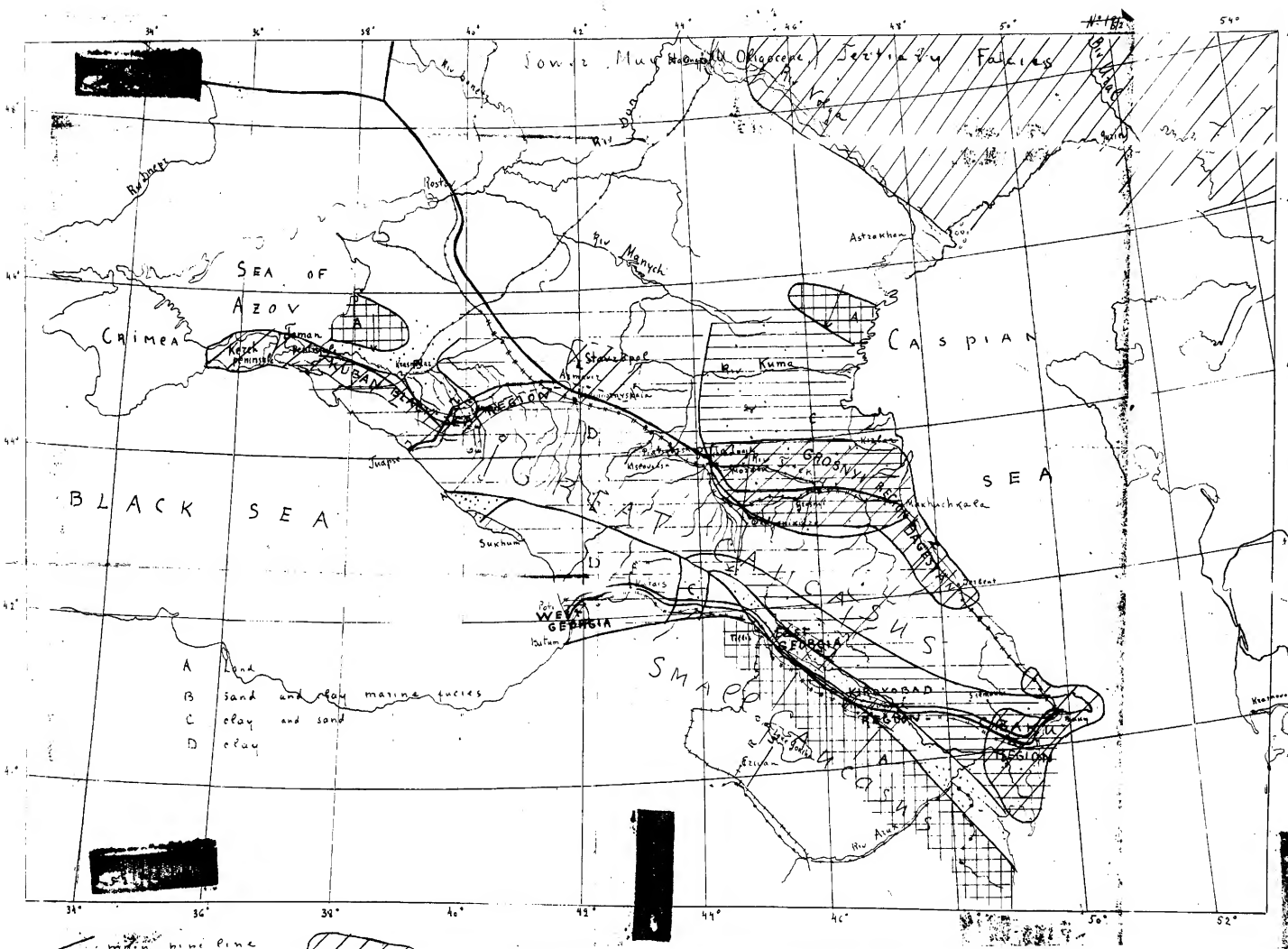
No 191

CAUCASUS



main pipe line

oilfields regions

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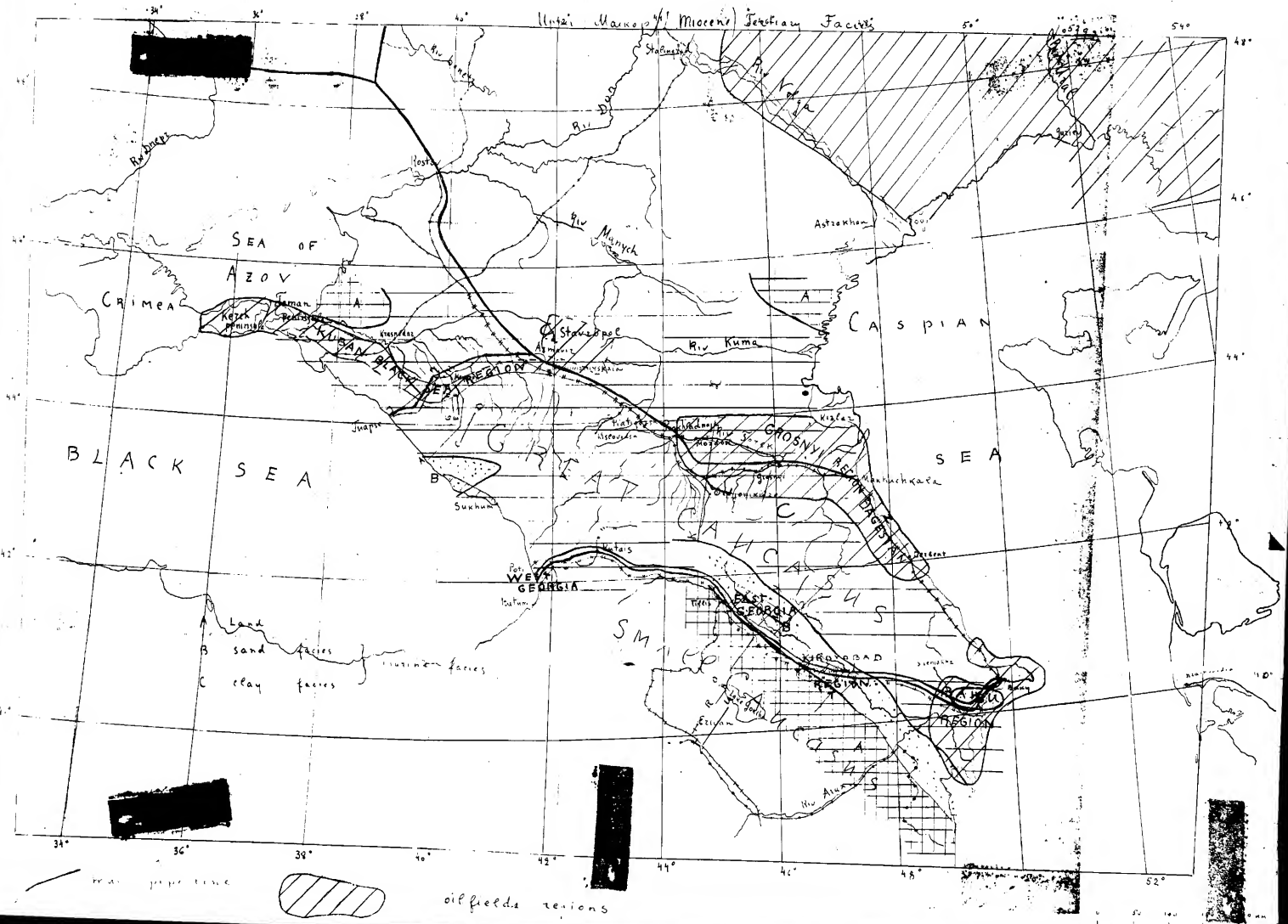
Caucasus

No. 192



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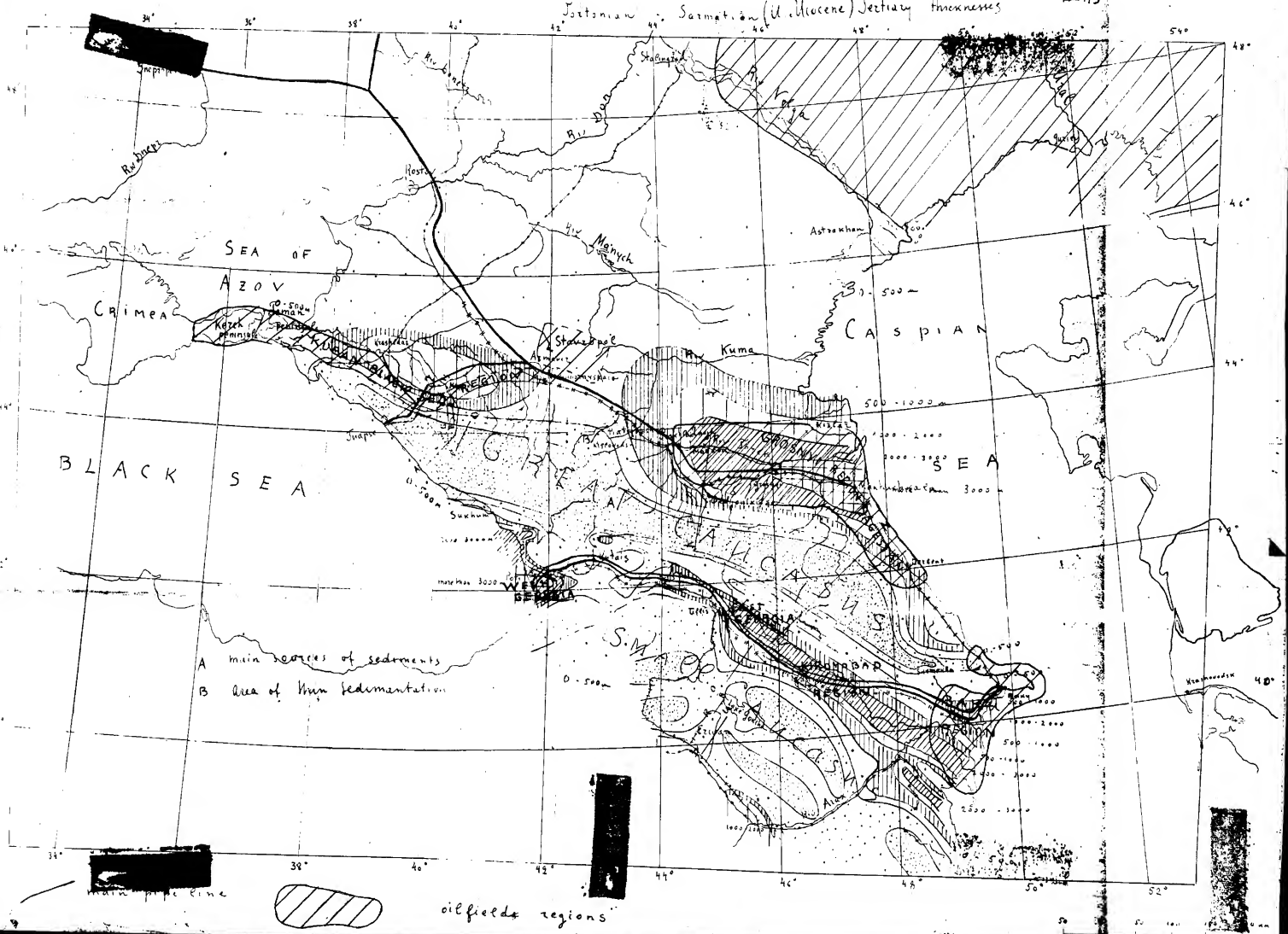
No. 193

Caucasus

Tortonian - Sarmatian (U. Miocene) Tertiary thicknesses



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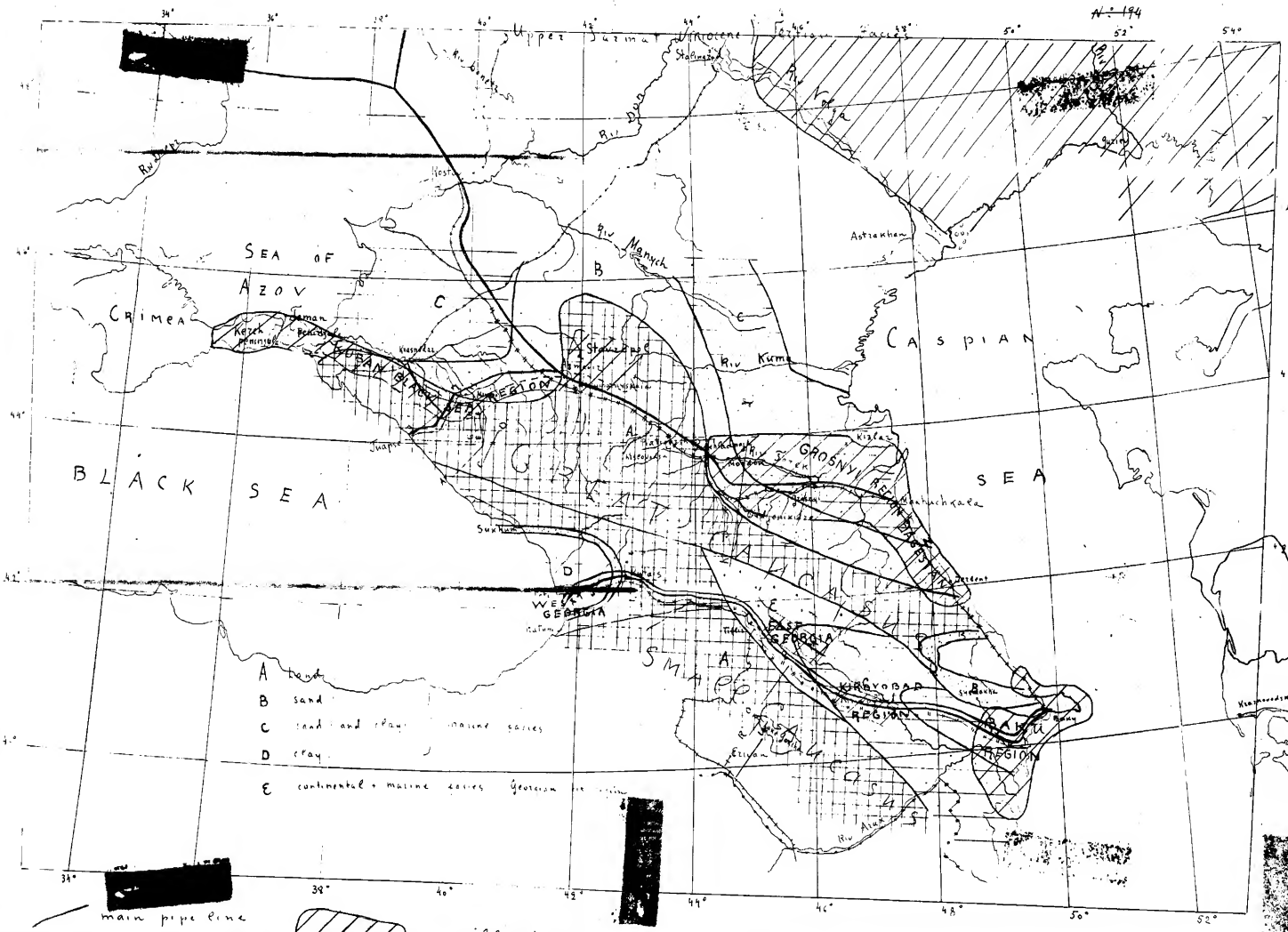
No. 194

Caucasus



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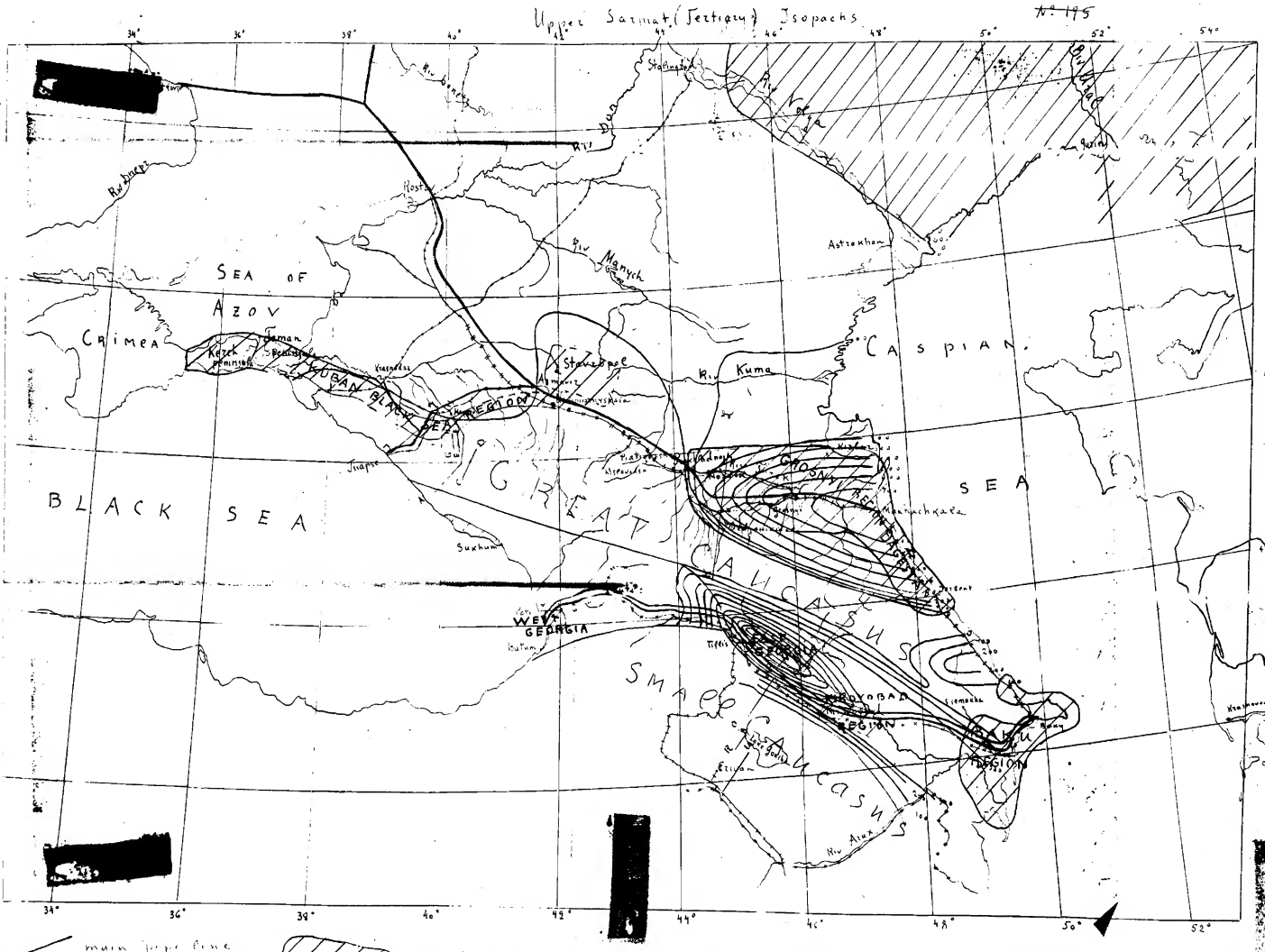
No. 195

CAUCASUS

Upper Sarmat (Tertiary) Isopachs ~~No 195~~



main pipe line

▨ oil fields regions

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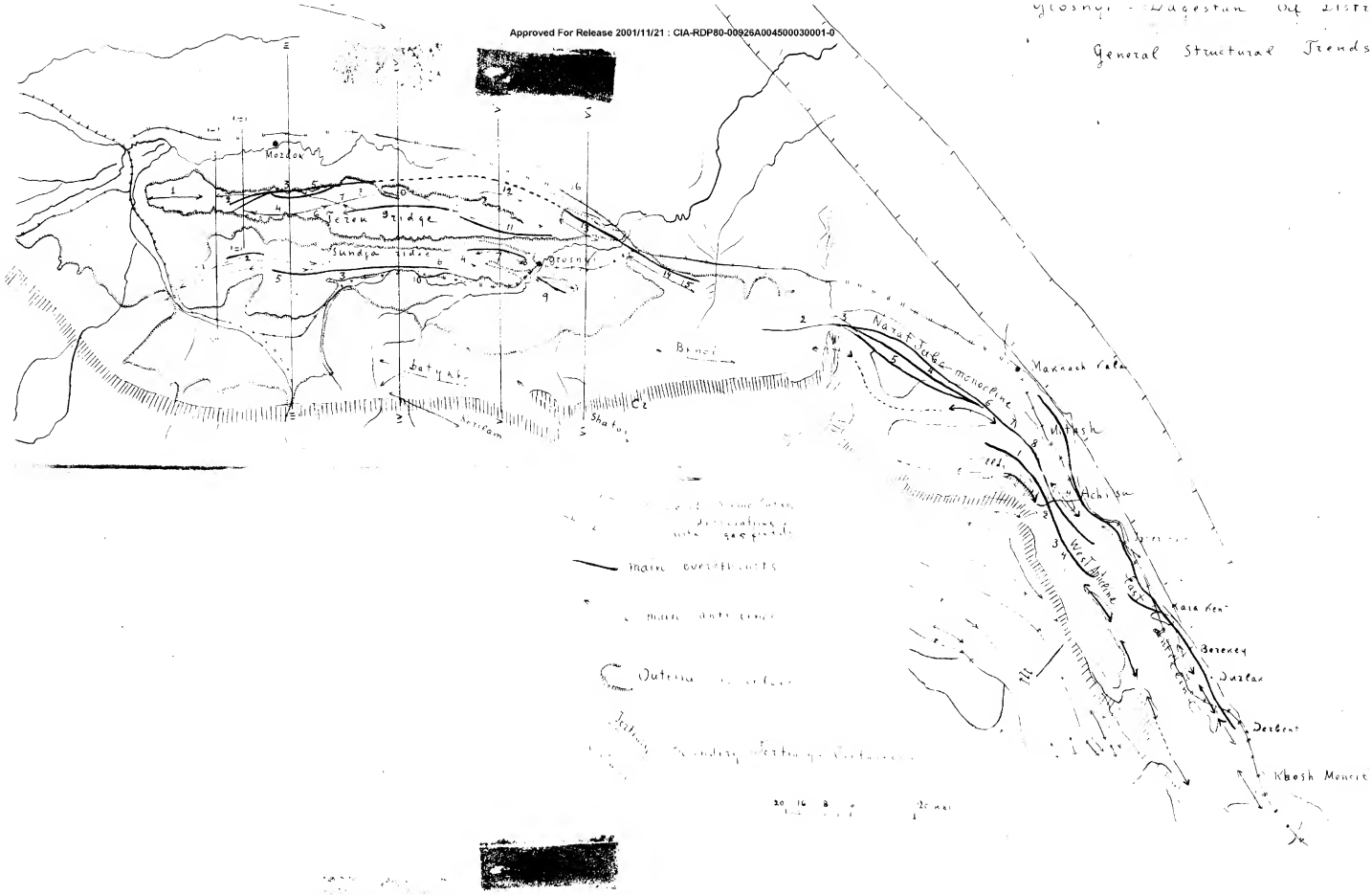
Geosyn[illegible] - Dagestan Oil District

General Structural Trends



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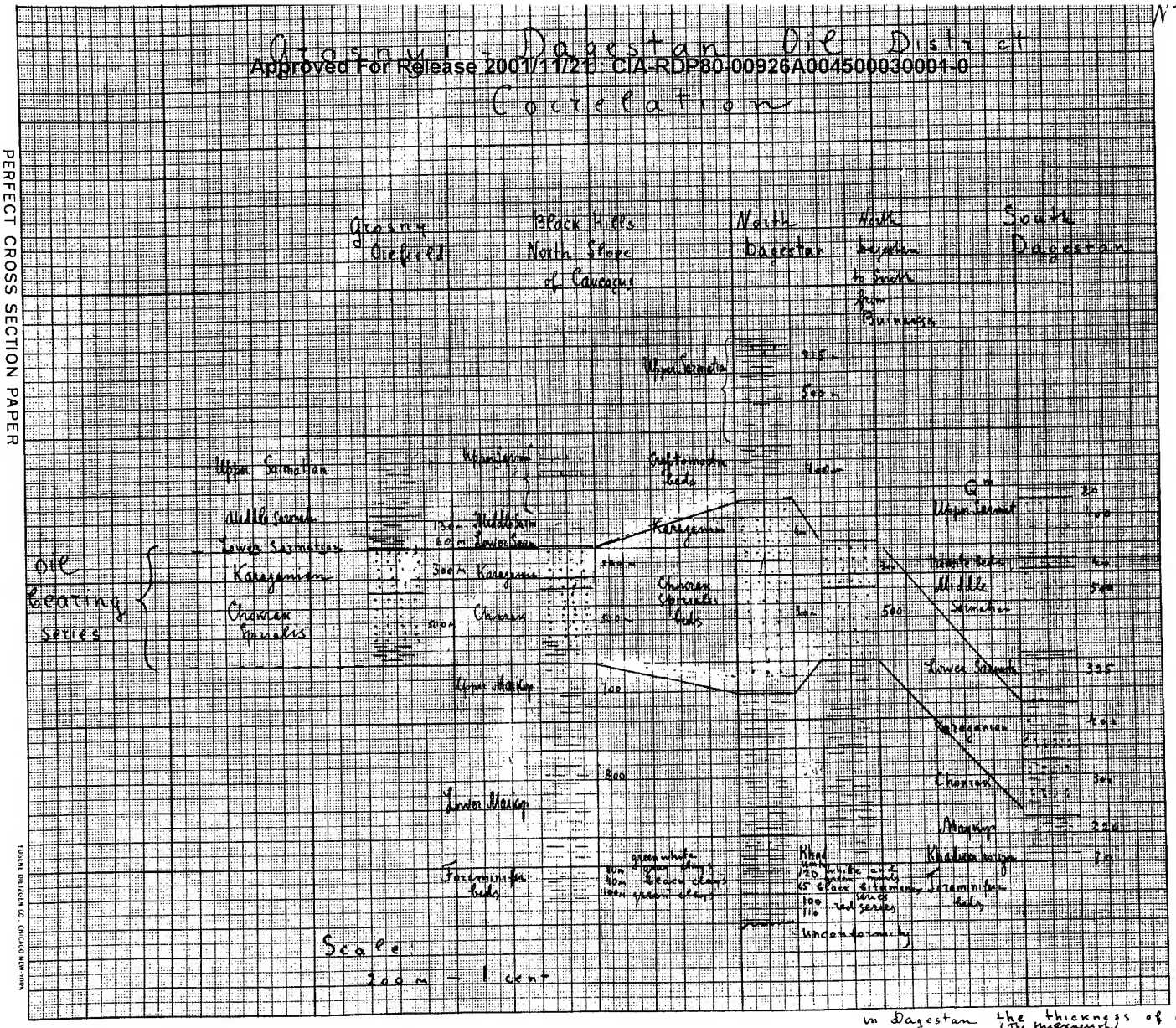
N-116

Grozny - Dagestan Oil District
Correlation



In Dagestan the thickness of Maikop beds diminishes. The thickness of Chokrak beds diminish to South from 1000 m in Kaja-Kent to 300 m. Upper sand horizons have same thickness in North and South.

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Oil Fields - Chokrak (Miocene) horizon m_3 Grozny : Dagestan oil district

No. 1/98

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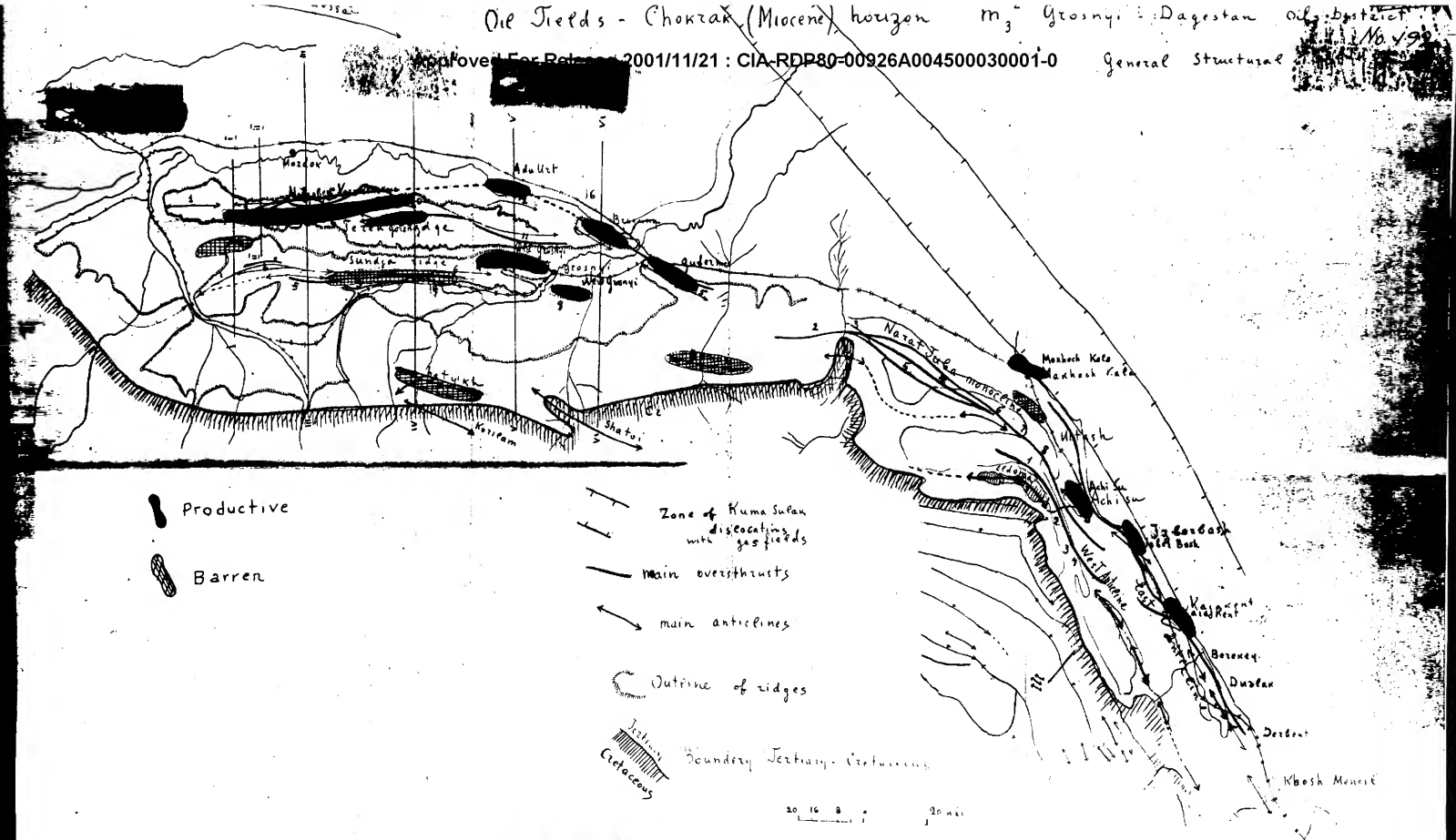
General Structural

[redacted]



[redacted]

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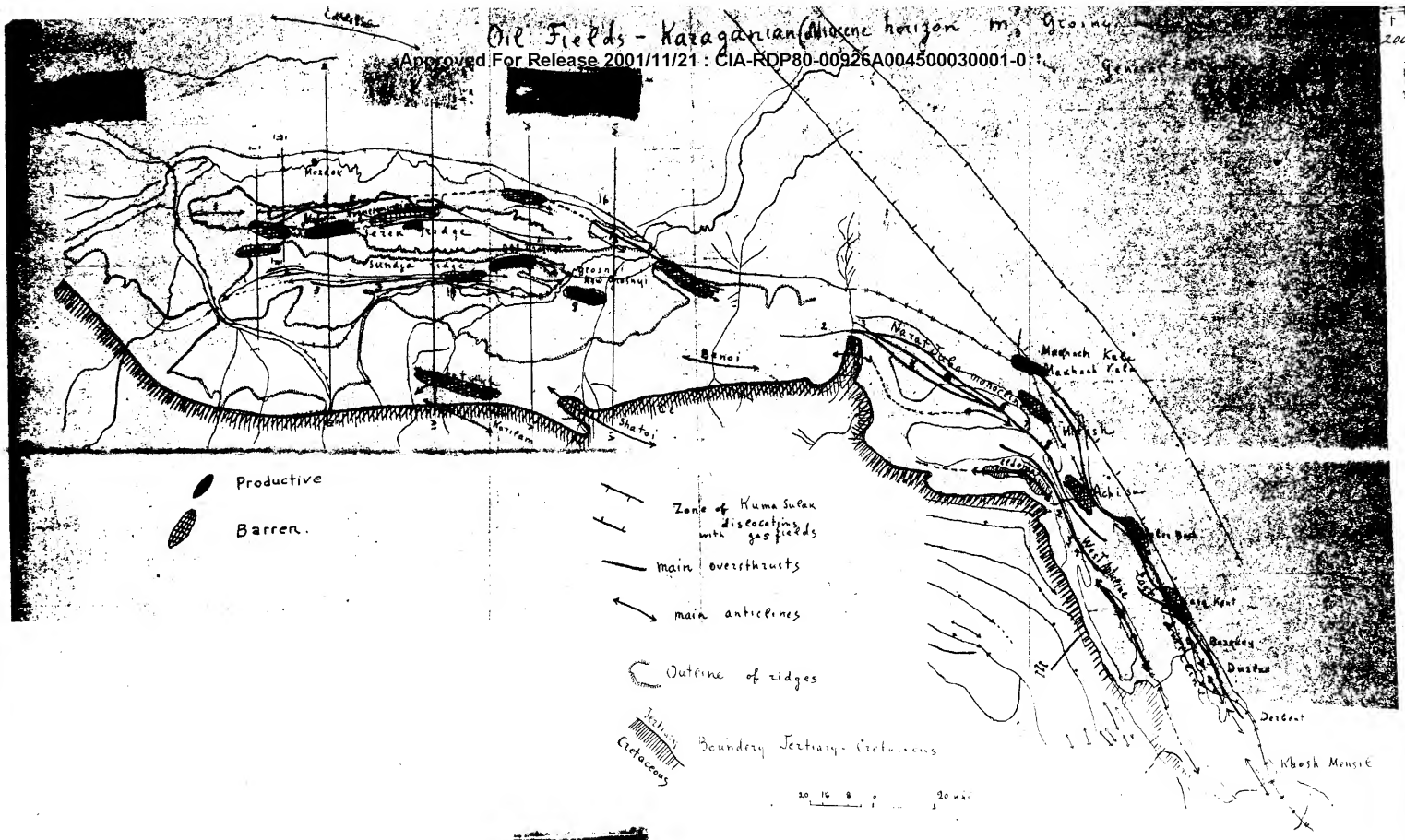
Oil Fields - Kazaganian (Miocene horizon m₃ Groiny

[redacted]



[redacted]

Cross Sections Grosnyi

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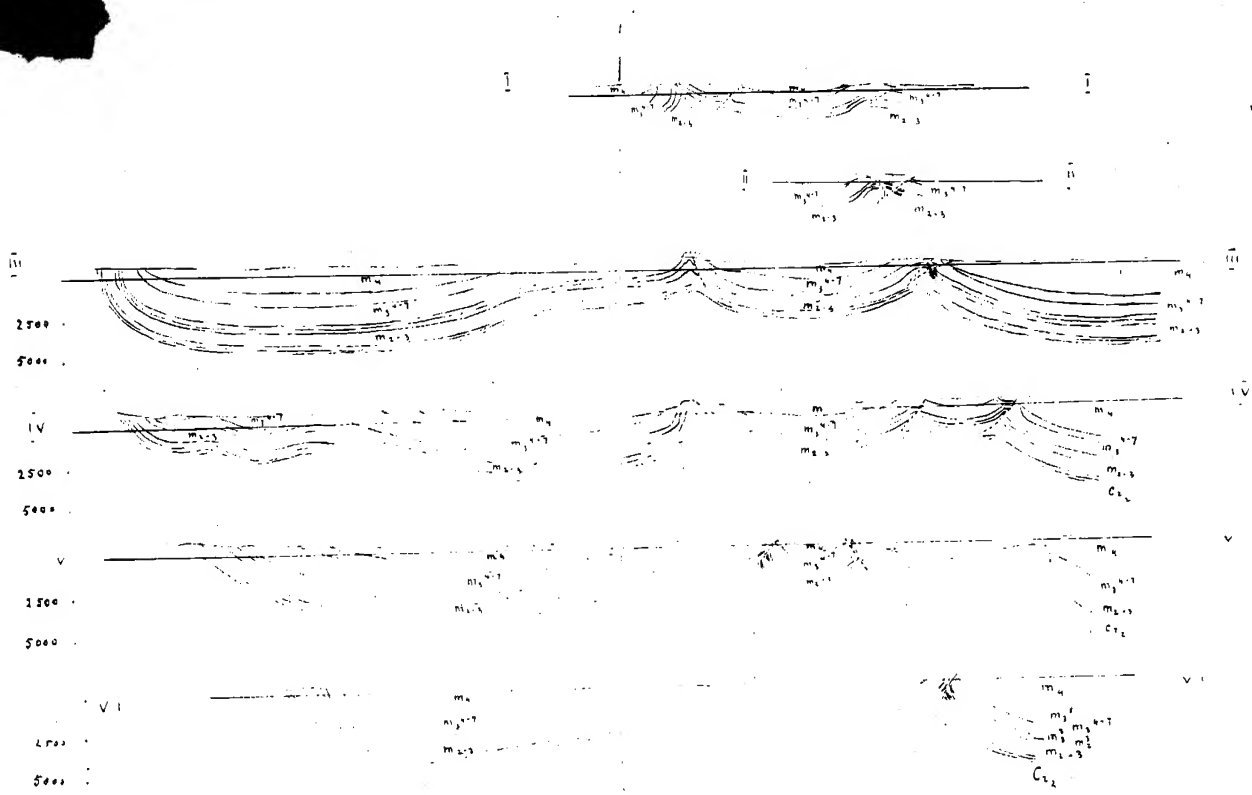
[redacted]

S N



2,5 K 0 5 10 15 Kil

m_4	pliocen + postpliocen	Pliocene
m_3^8	Meotic	Miocene
m_3^{4-7}	Sarmatian	
m_3^3	Kazaganian horizon	
m_3^2	Chokrakian horizon	
[redacted]	Maykop beds	Oligocene
[redacted]	Foraminifera beds	
Cr_2	upper Cretaceous	Cretaceous

— fix horizon

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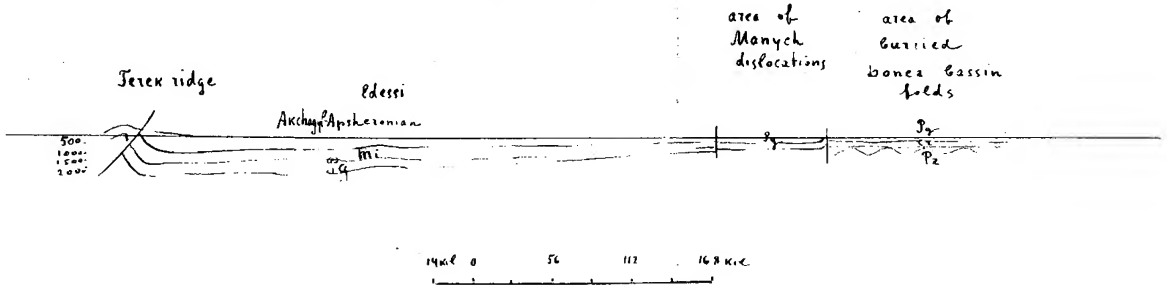
N:2

Grosnyi

Cross section Between Terek ridge and buried Donez basin



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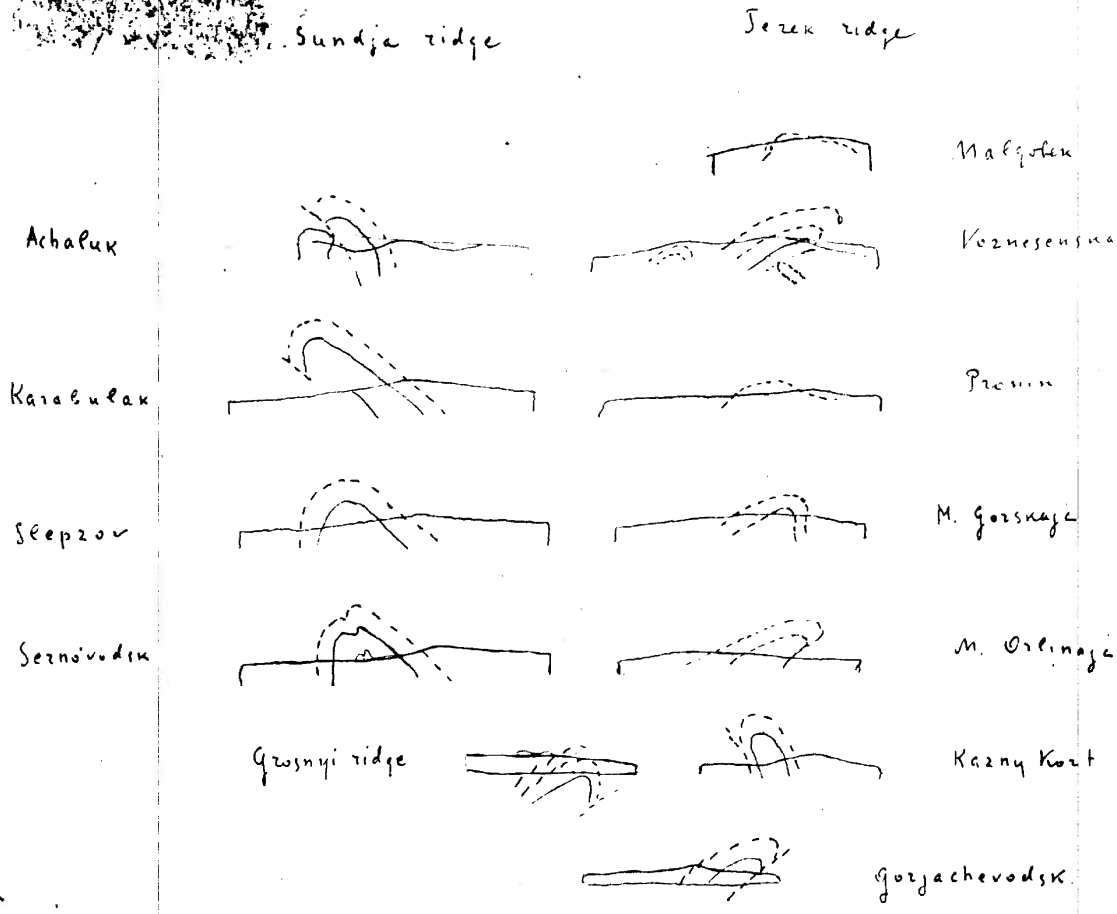
Grozny

№ 203

Types of Overthrusting characteristic of region



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by Prof. K.A. Prokopov

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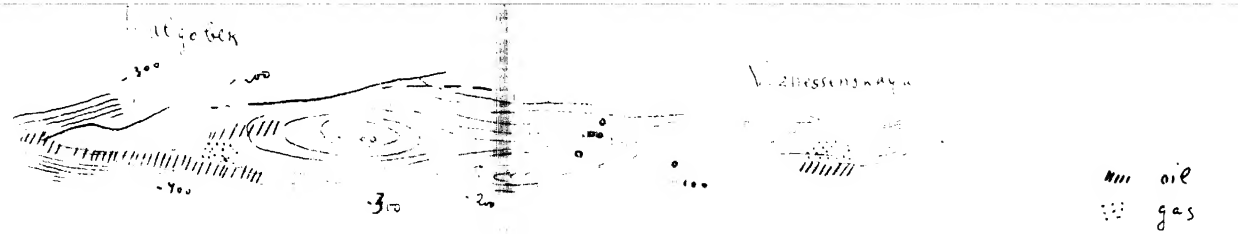
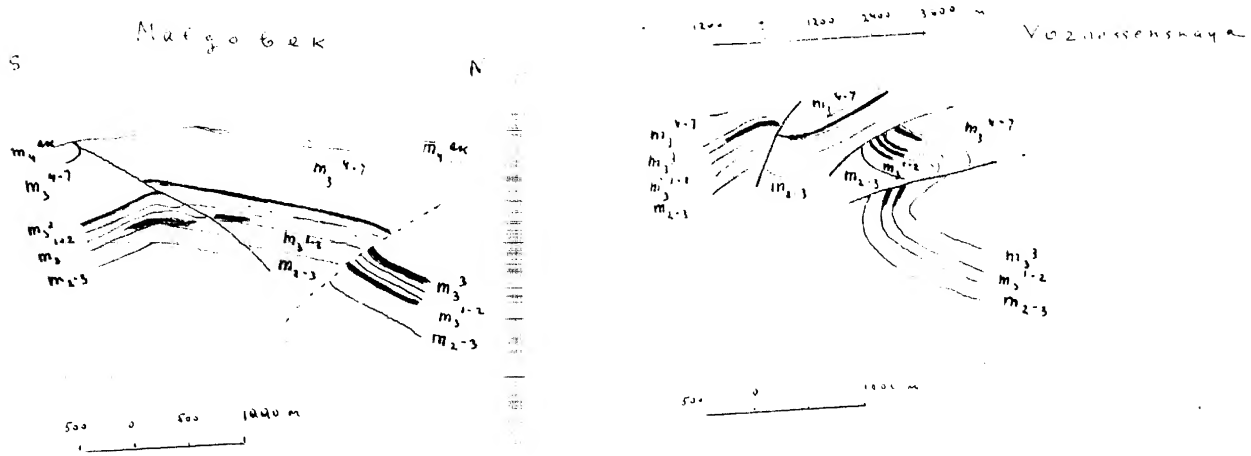
№ 205

South Malgobek and Voznessenskaya (№ 3, 4, 5, 6)





Structure of the overthrust surface.

— oil

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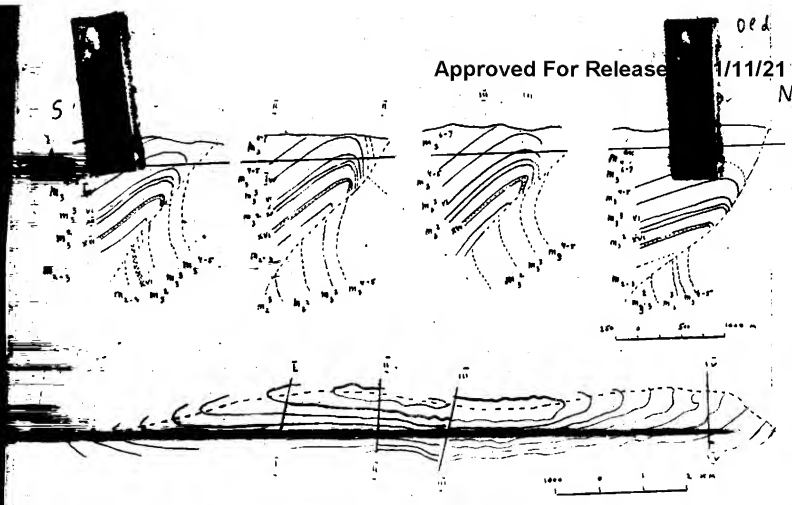
Old Grosnyi Field (N.° 7, 8)

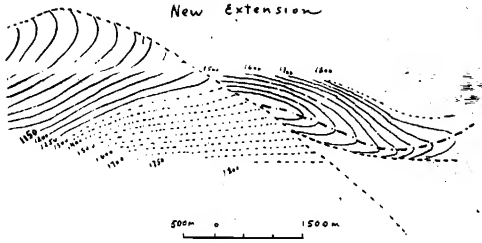
N.° 26

S

N



East Old Grosnyi and Jashkala



Oil found on both flanks, but ~~now~~ production mainly from underthrust flank.

New Grozny (Pl. 9)

N: 207

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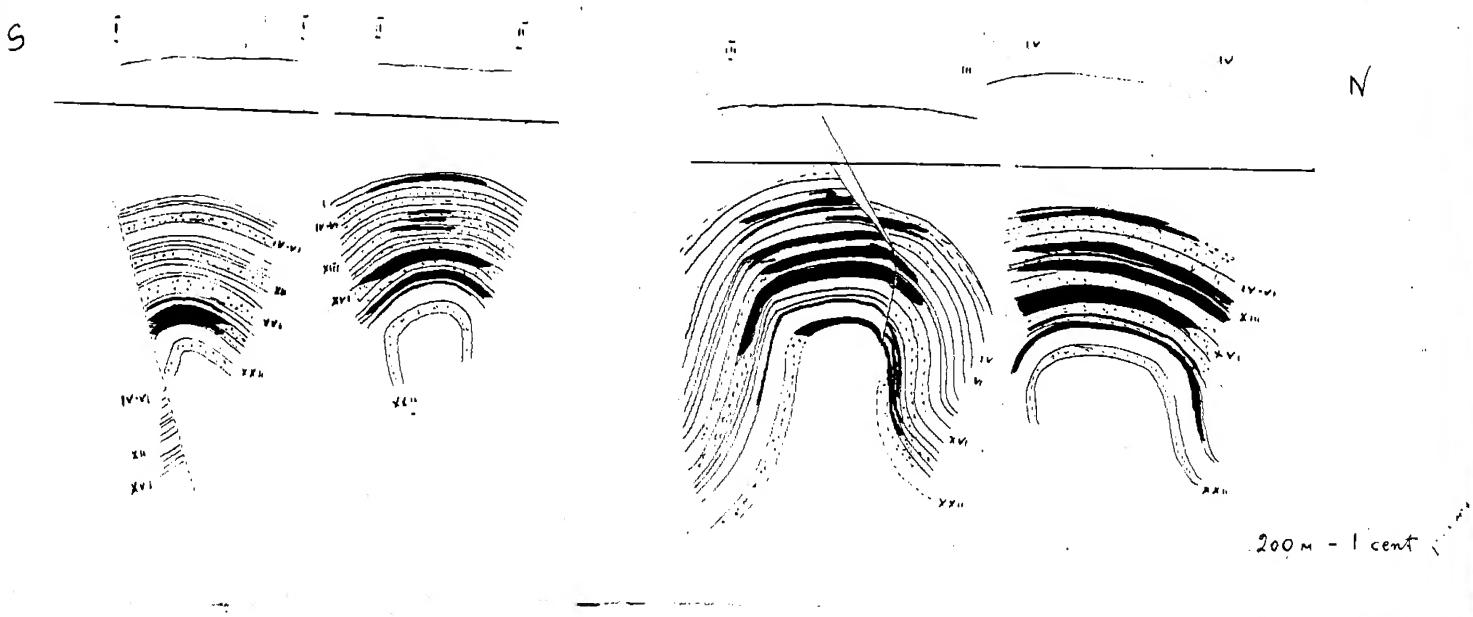

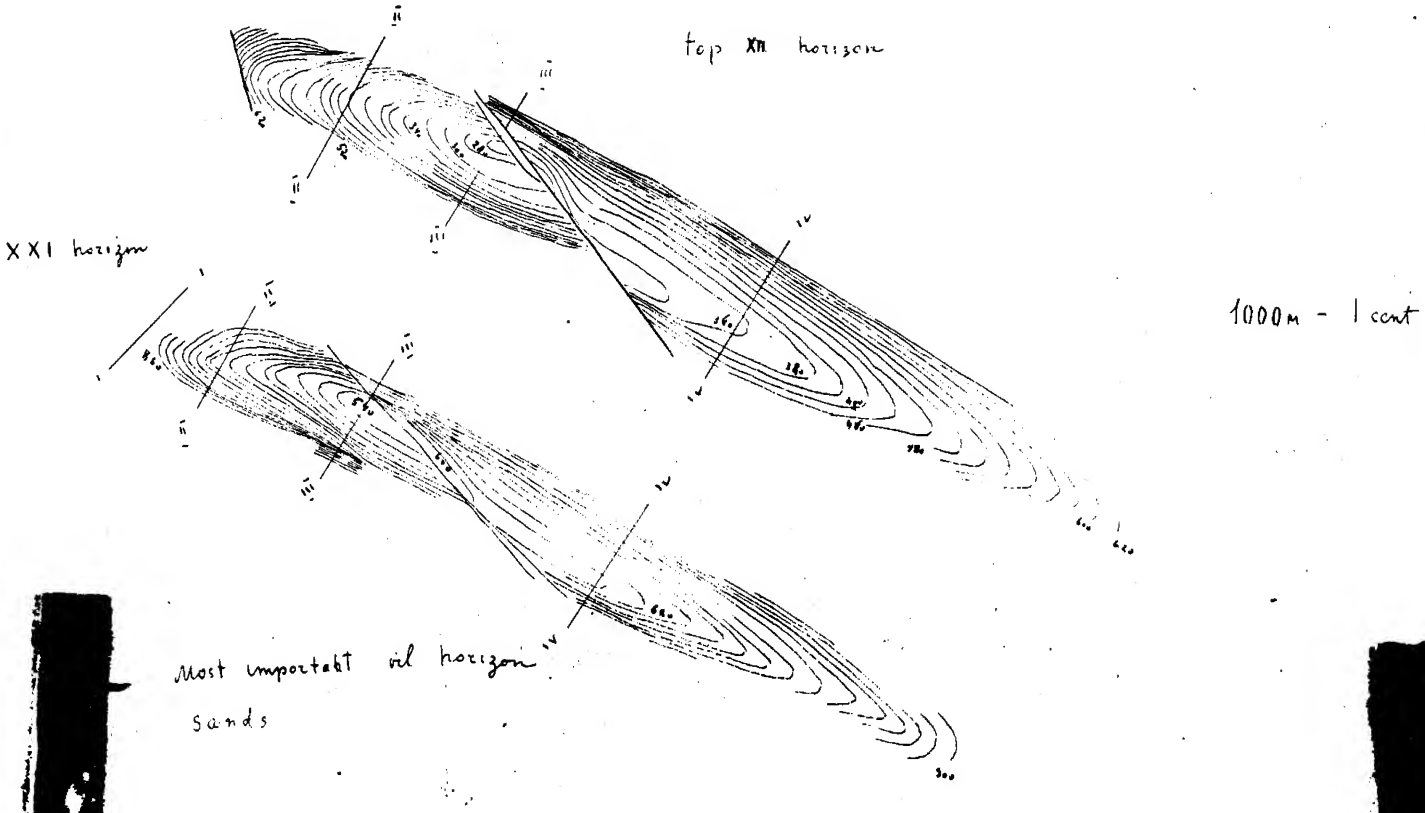

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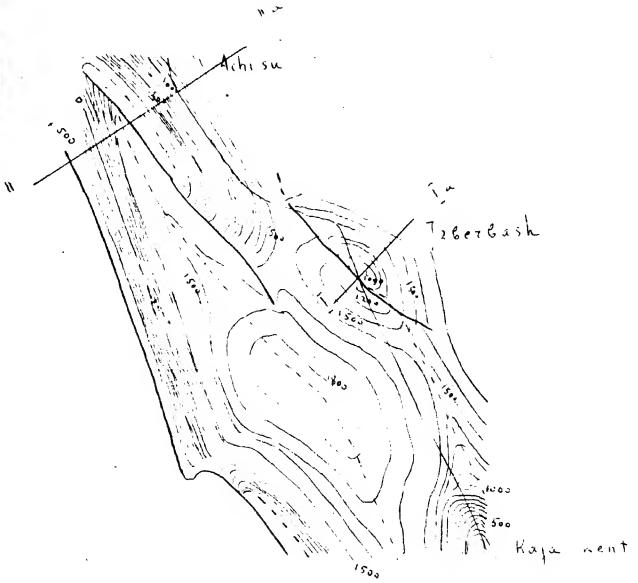
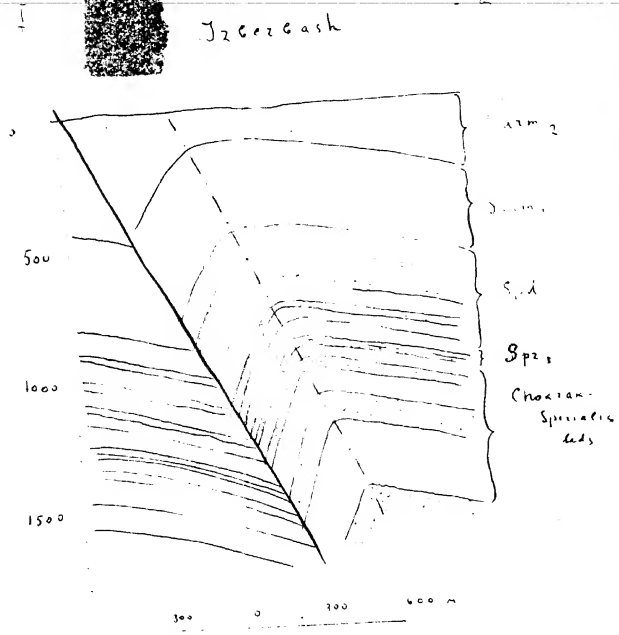
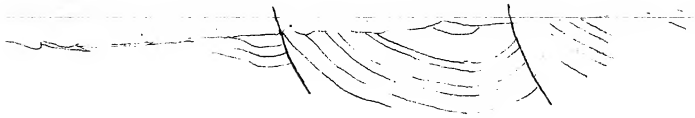
N 208

Dagestan. Izberbash and Achi su oil fields (Nos 3, 4)



top of Chokrak Spirialis beds





0 2 4 6 8 km

oil

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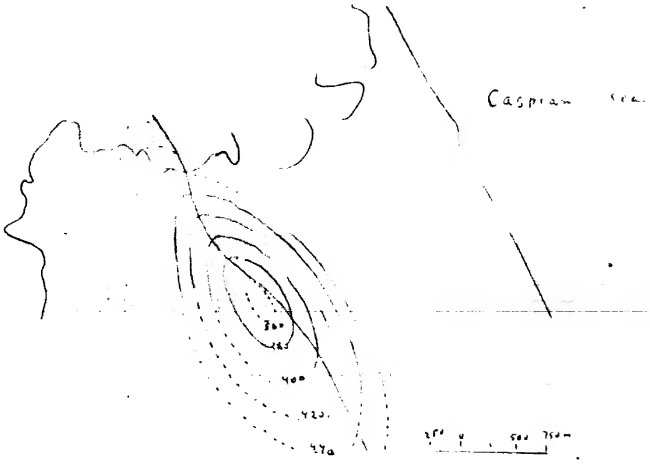
N° 209

Dagestan

Bozovi oil field (N° 6)



Structure on Foraminifera beds (Oligocene)

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Dagestan Derbent (№ 9) New oil field (1947) № 210

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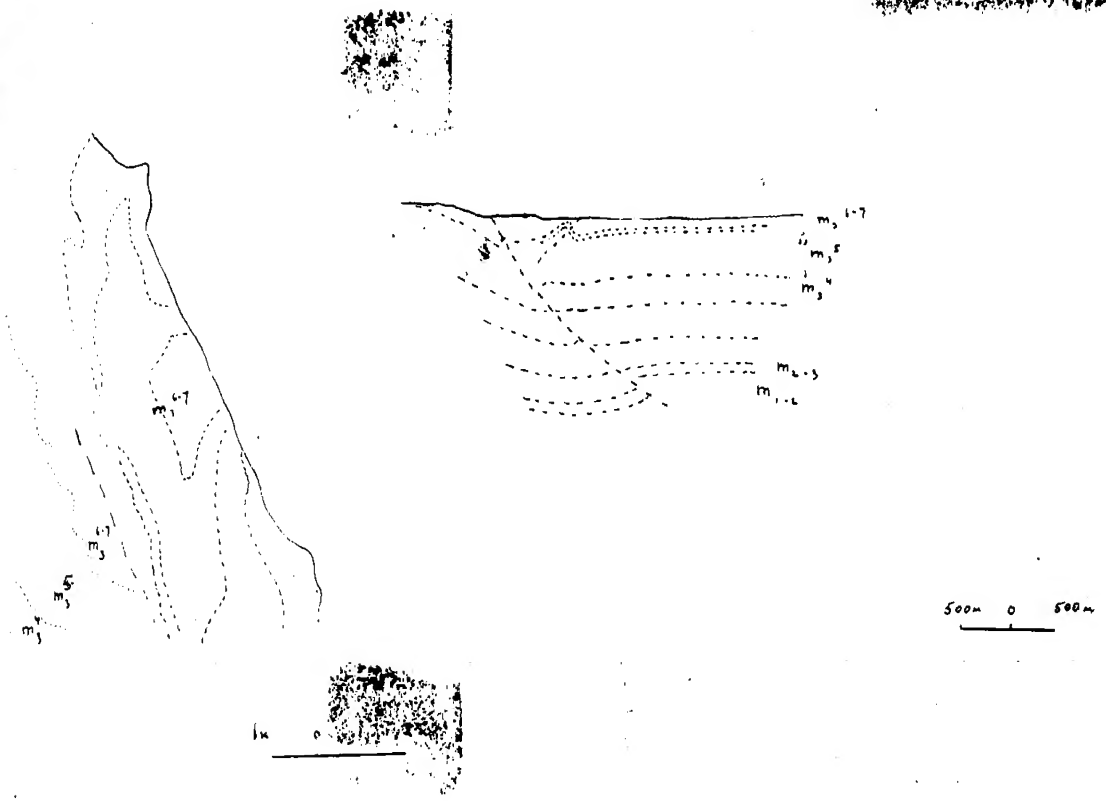

m_3^{6-7} Upper Sarmet

m_3^{5-7} Middle Sarmet

m_3^{4} Lower Sarmet

m_3^{3} Karagan

m_3^{2} Chokrak

m_3^{1} Tarkhan

m_{2-3} Maikop

m_{1-2} Foraminifera beds

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Baku district

~~№ 239~~ No. 243

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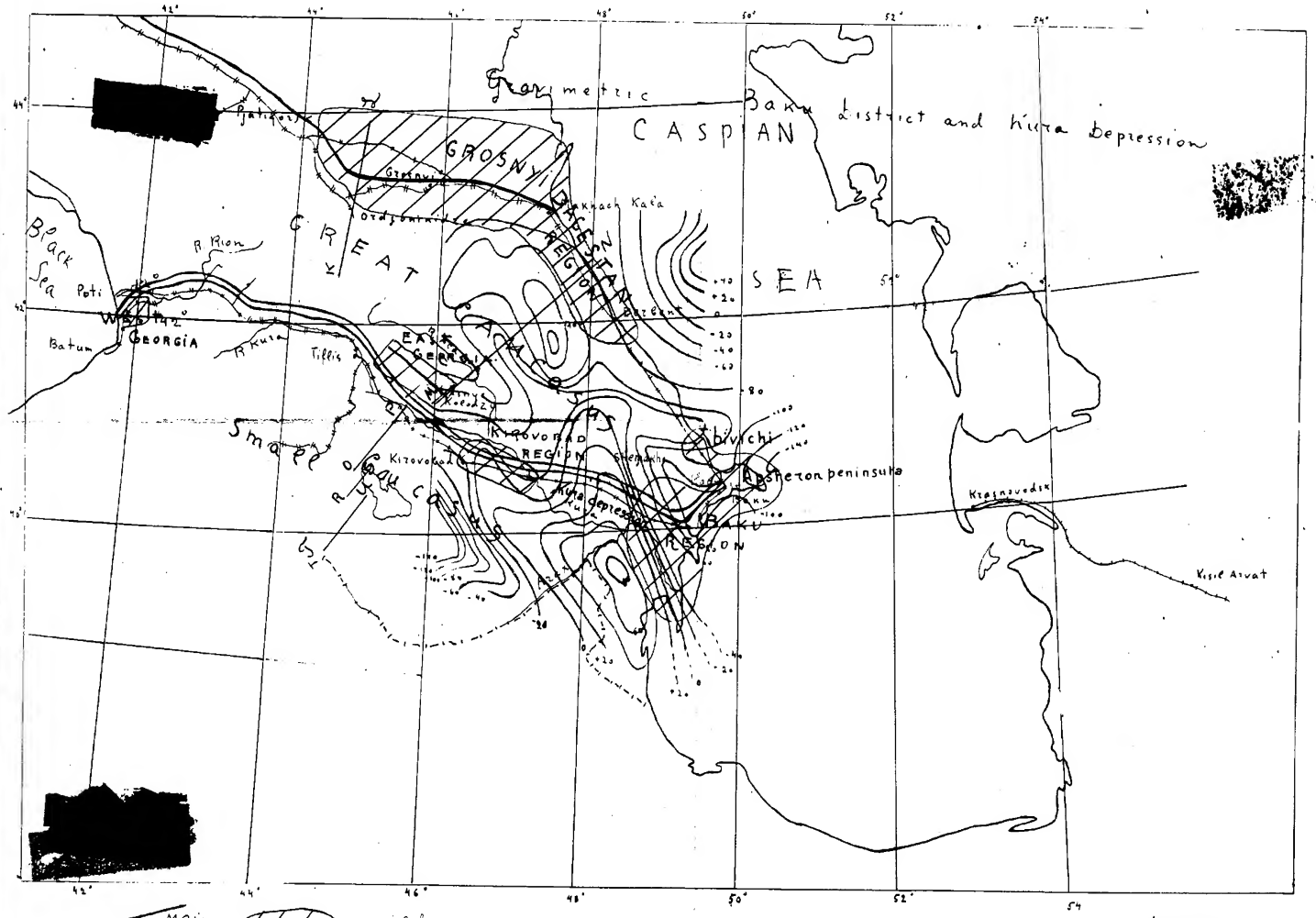
Kura Depression

[redacted]



[redacted]

Baku district
and
Kura depression

No. 244

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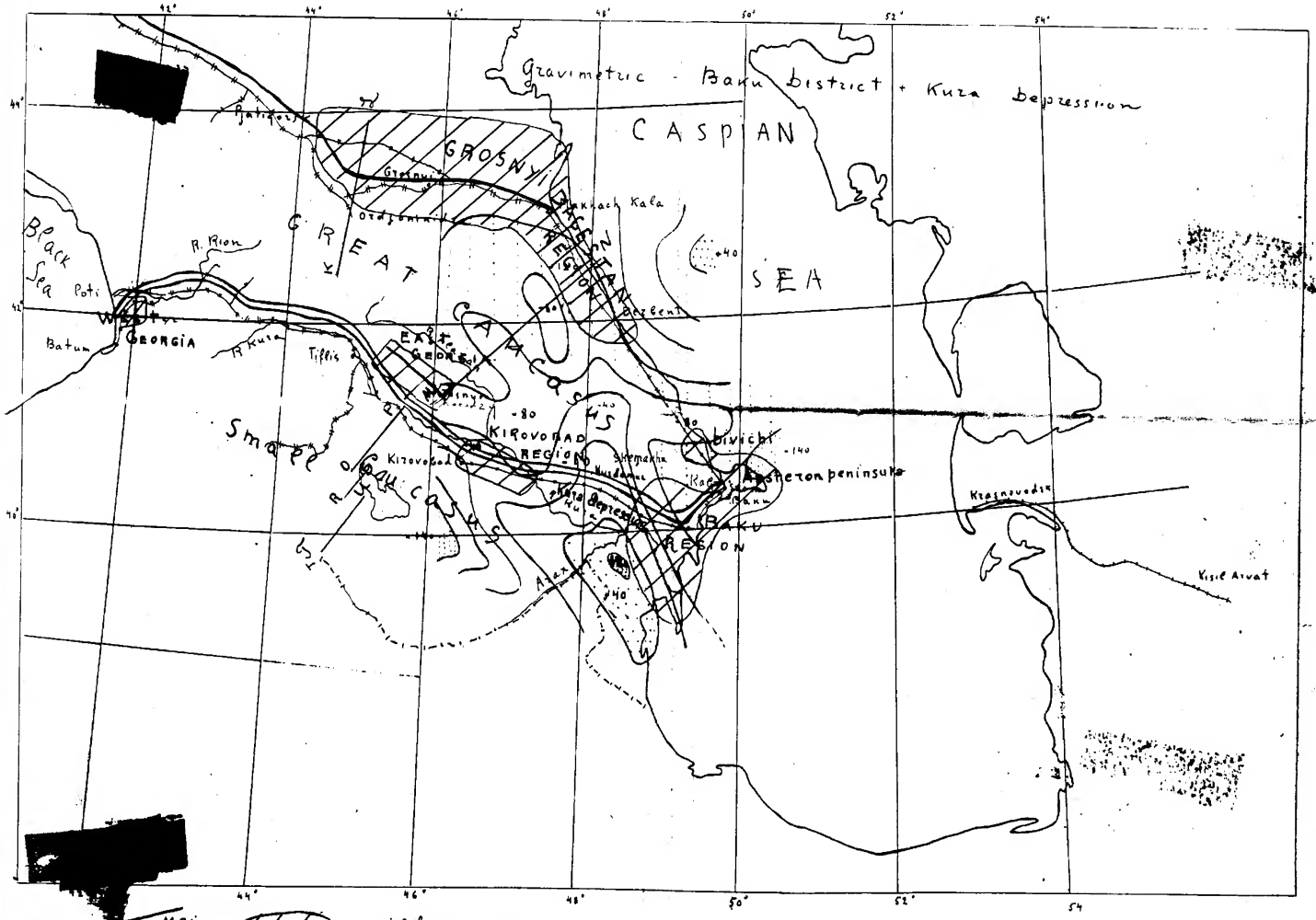

Main pipelines

oil fields regions

0 50 100 150 200 250 KM

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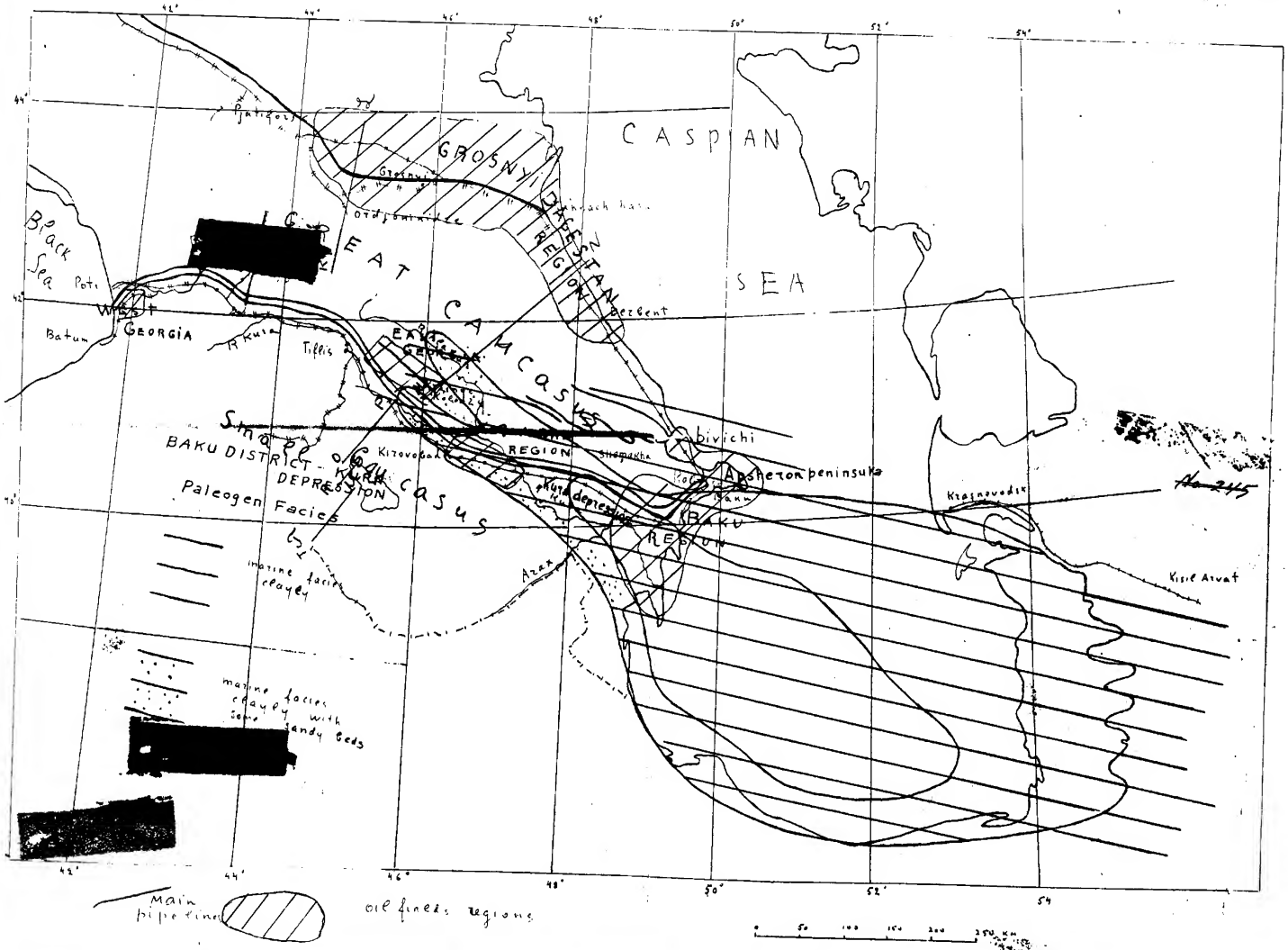
Baku district and Kura Depression

~~No 239~~ 245

[redacted]



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~~No 239~~
No 246

Baku District

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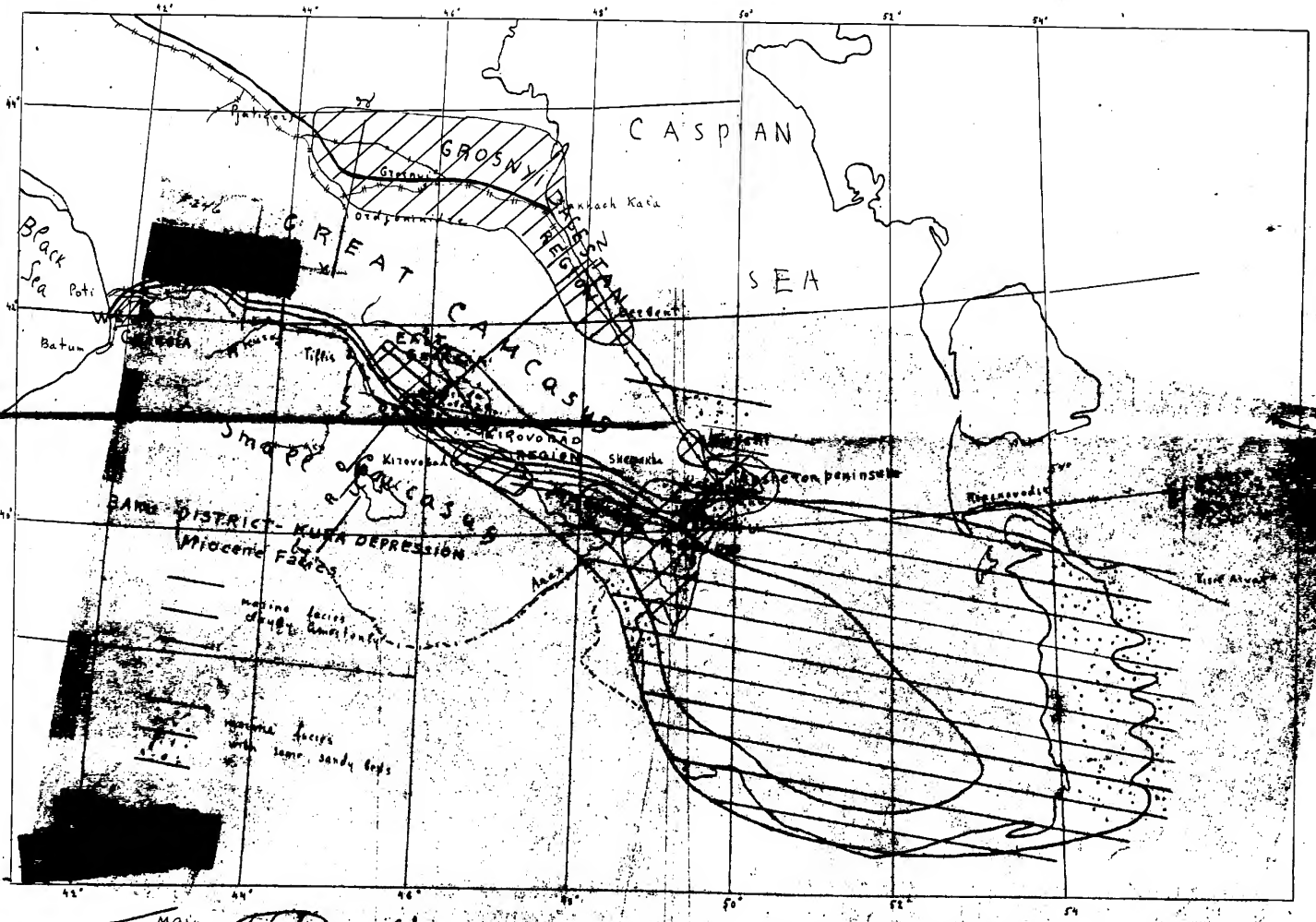
Kura Depression



~~No. 237~~
No. 247

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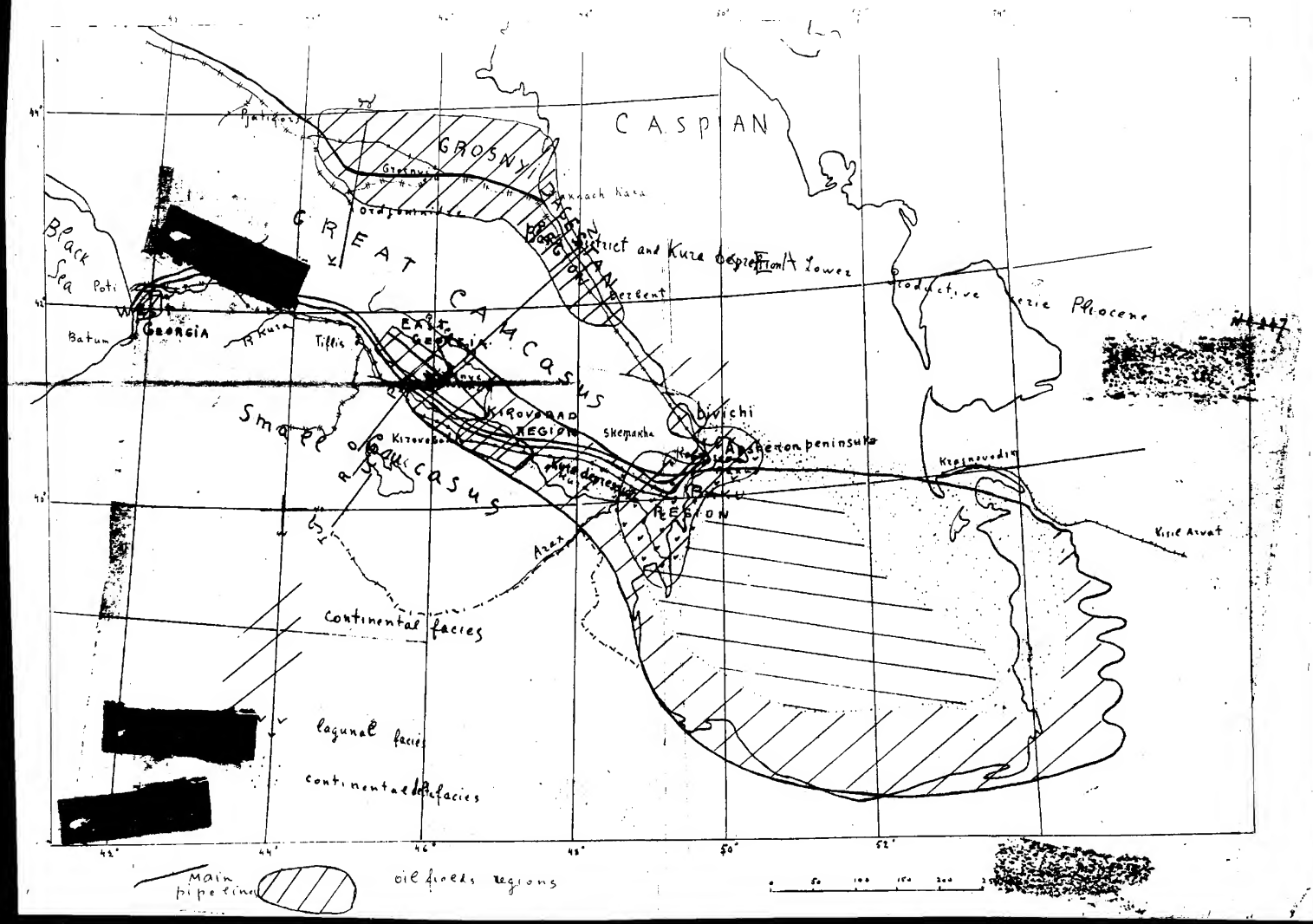
Kura Depression



Baku district

~~No 239~~ No. 248

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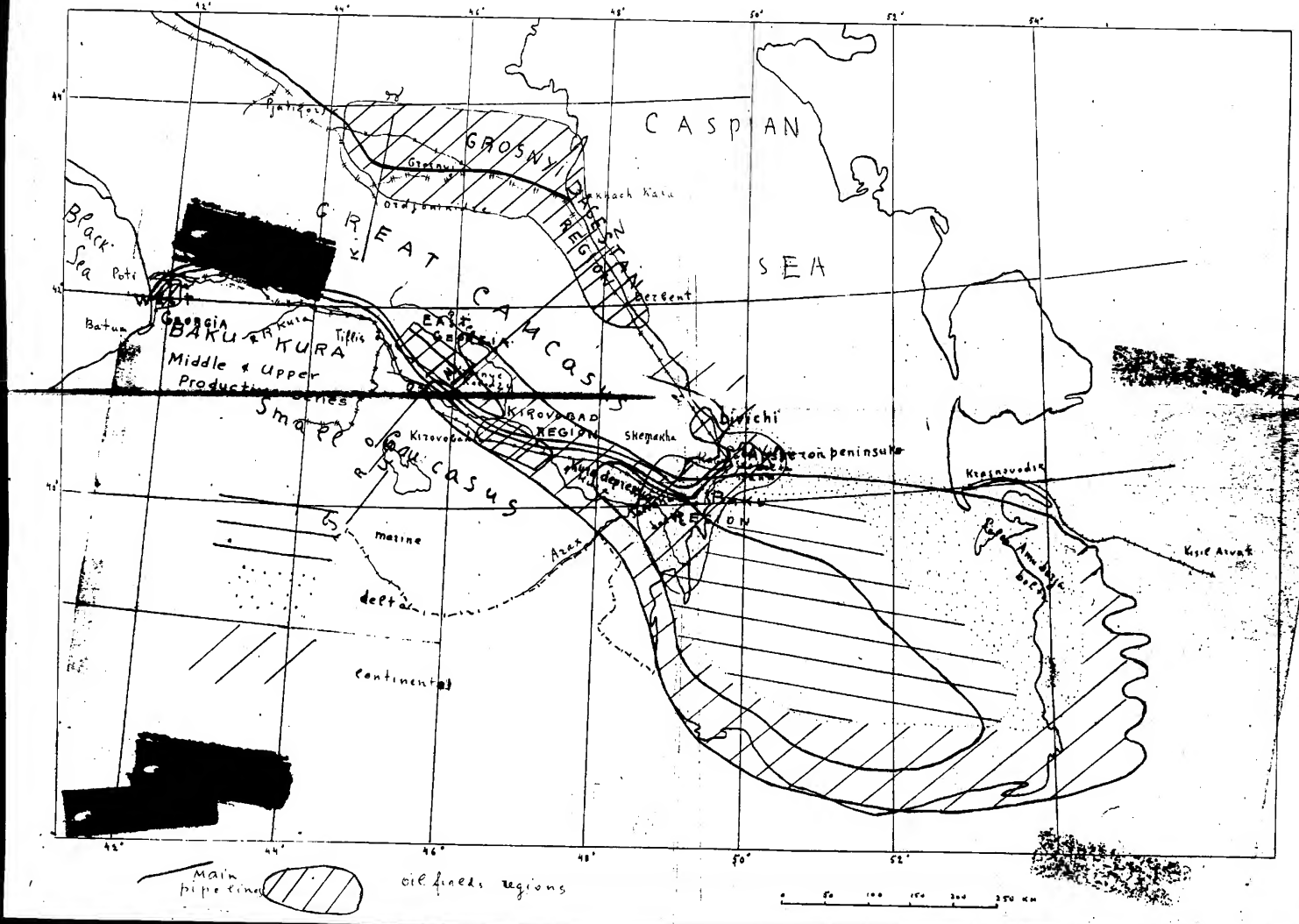
Kura Depression



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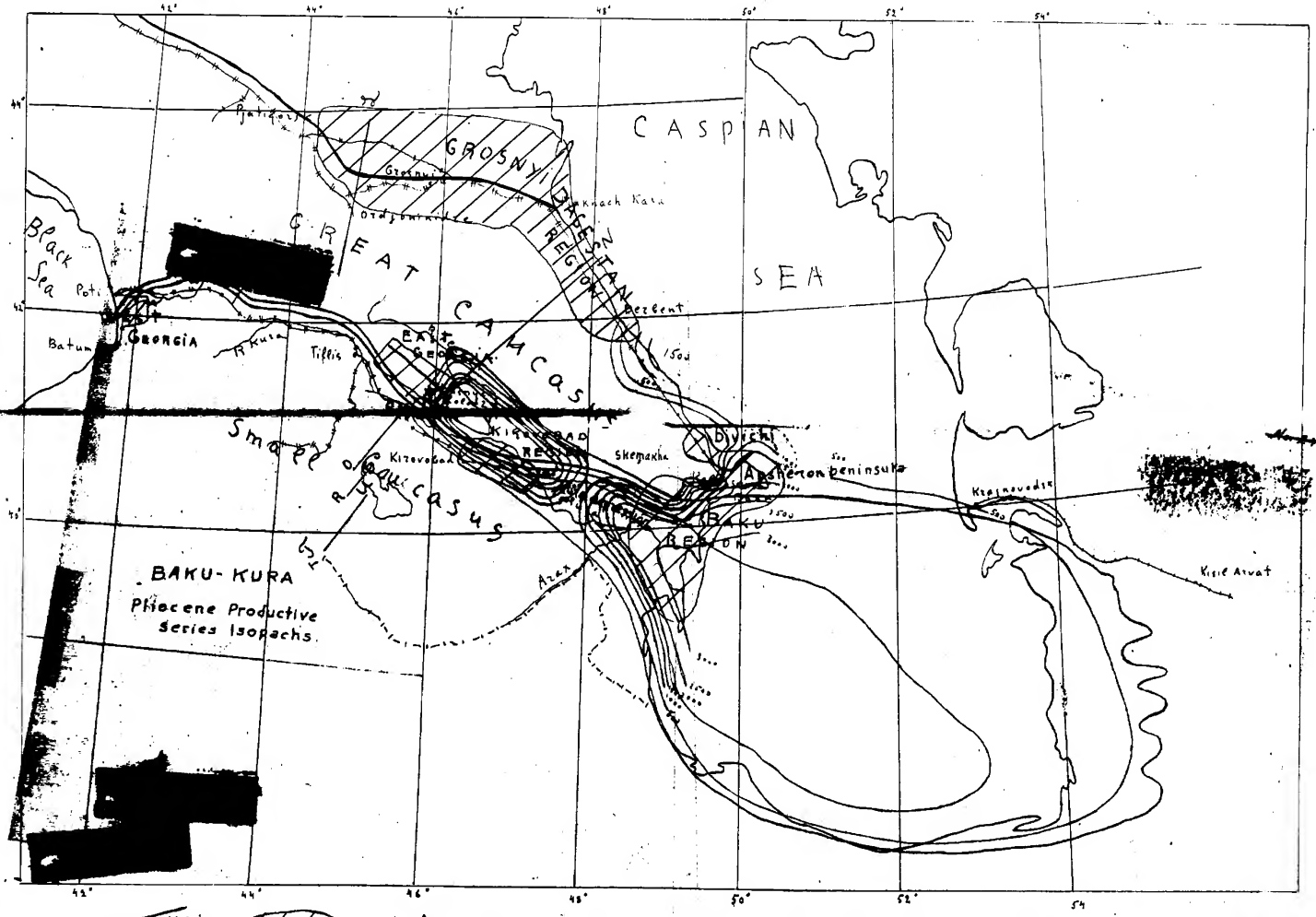
~~No 239~~
No 249

Baku District and Kura Depression



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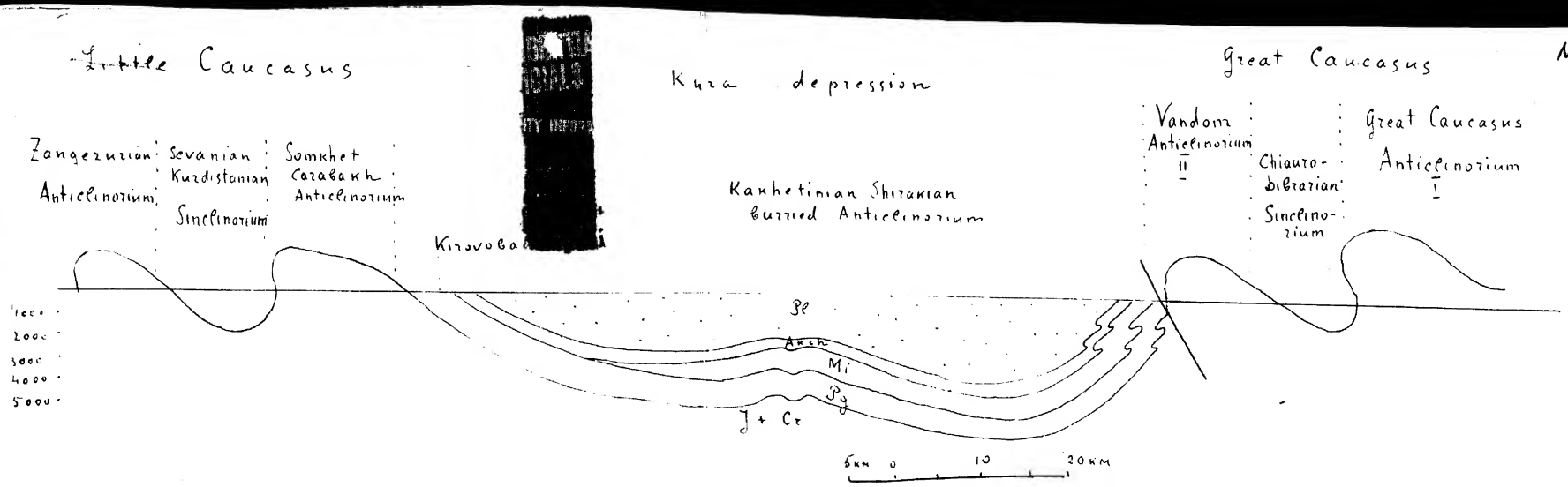

N° 50

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N° 251

Distribution of Facies, Productive series (Pliocene)

SW

NO

Apsheron peninsula

delta Paleo Kura

delta Paleo Volga

Mal. Caucasus

0 m.
1
2
3
4
5
6 .kil

Pl-d s

M1

Pq

5 kil 0 10 20

conglomerate continental series

" sand "

lagunal series

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№ 252

NW

SE

Kurdamur

Paleo Kura + Paleo Volga delta

Paleo Amu Darja delta

Turkmenia

Pl

M

PR

30 км 0 60 120 180 км

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N° 253

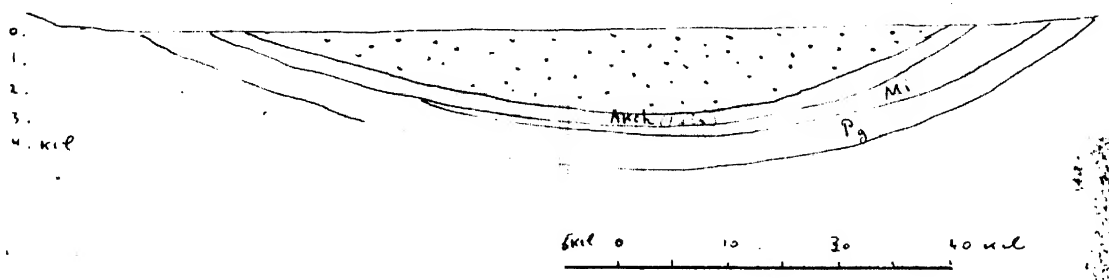
Cross section - Facies . . structures taken out

S

Kirovobad

N

Great Caucasus



Productive (Pliocene) continental series

marine

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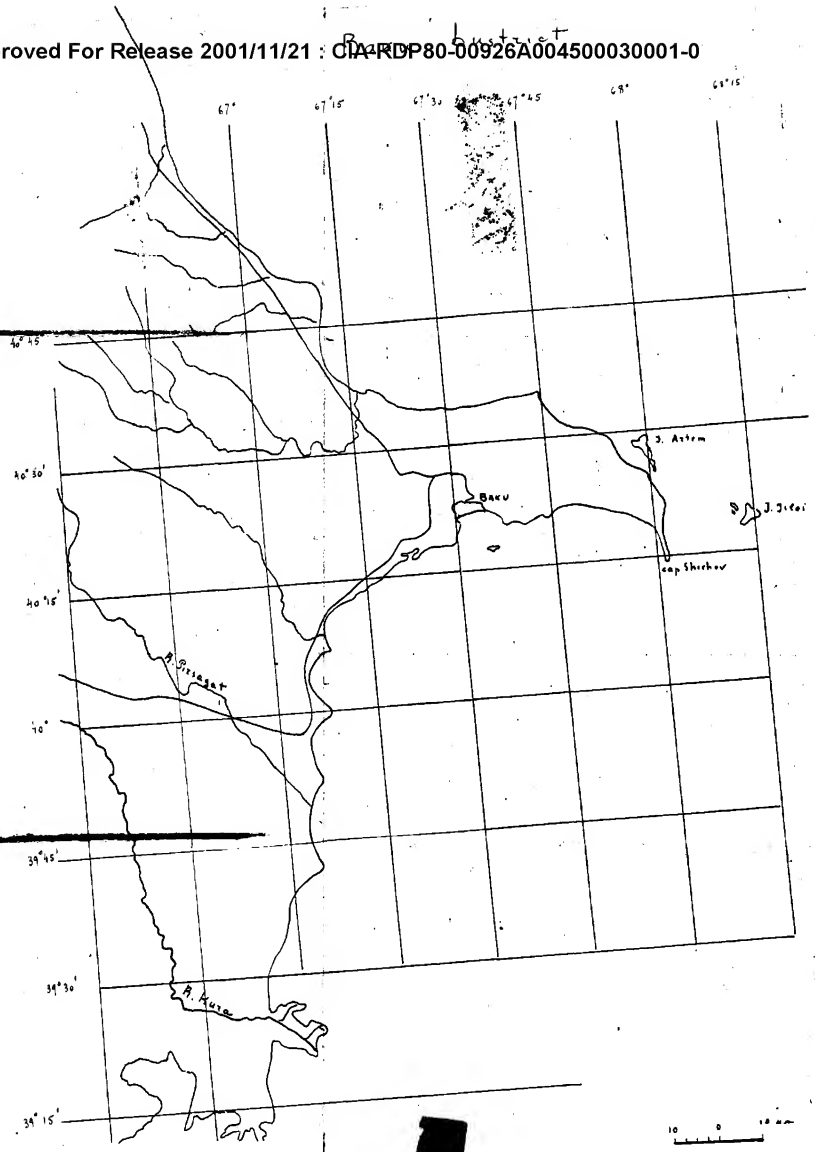

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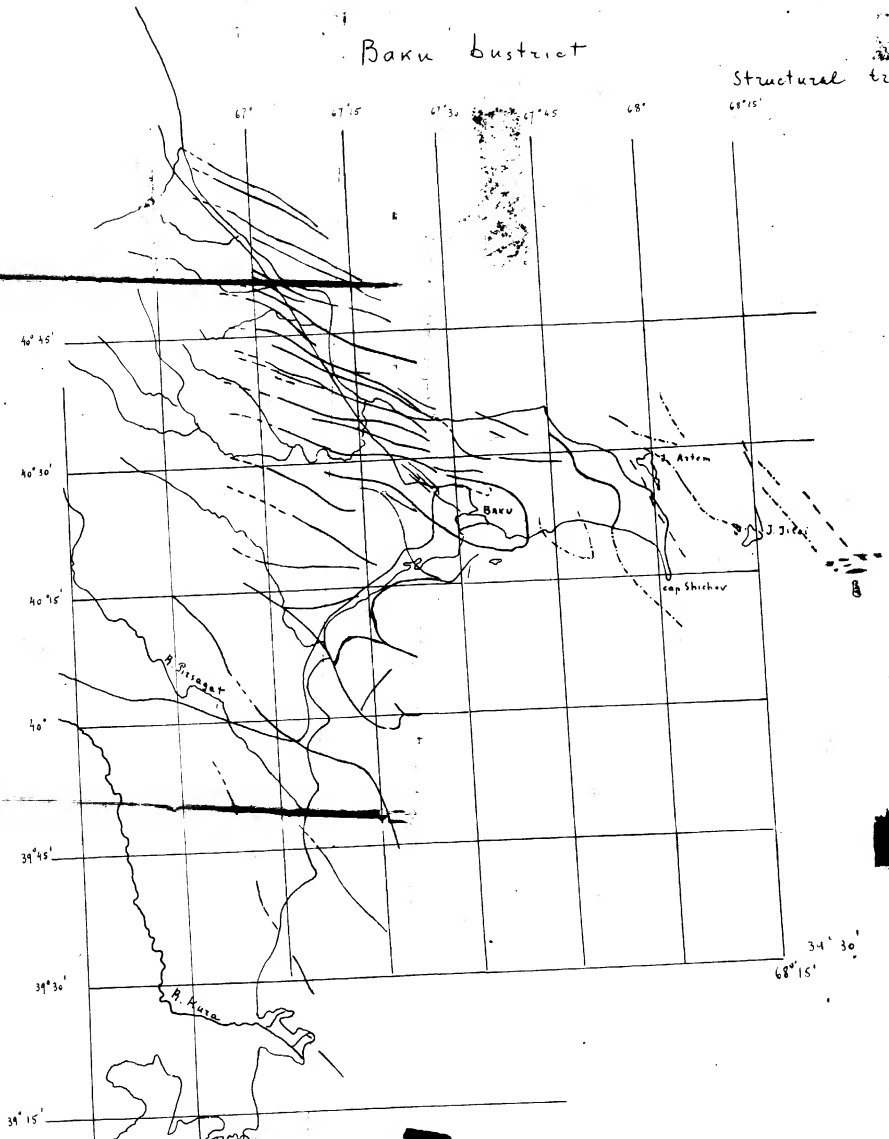
No. 256

Baku bustrict

Structural trends



anticlines
anticlines found by s
synclines
structures found by s in sea

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N° 258

B Transition of structures

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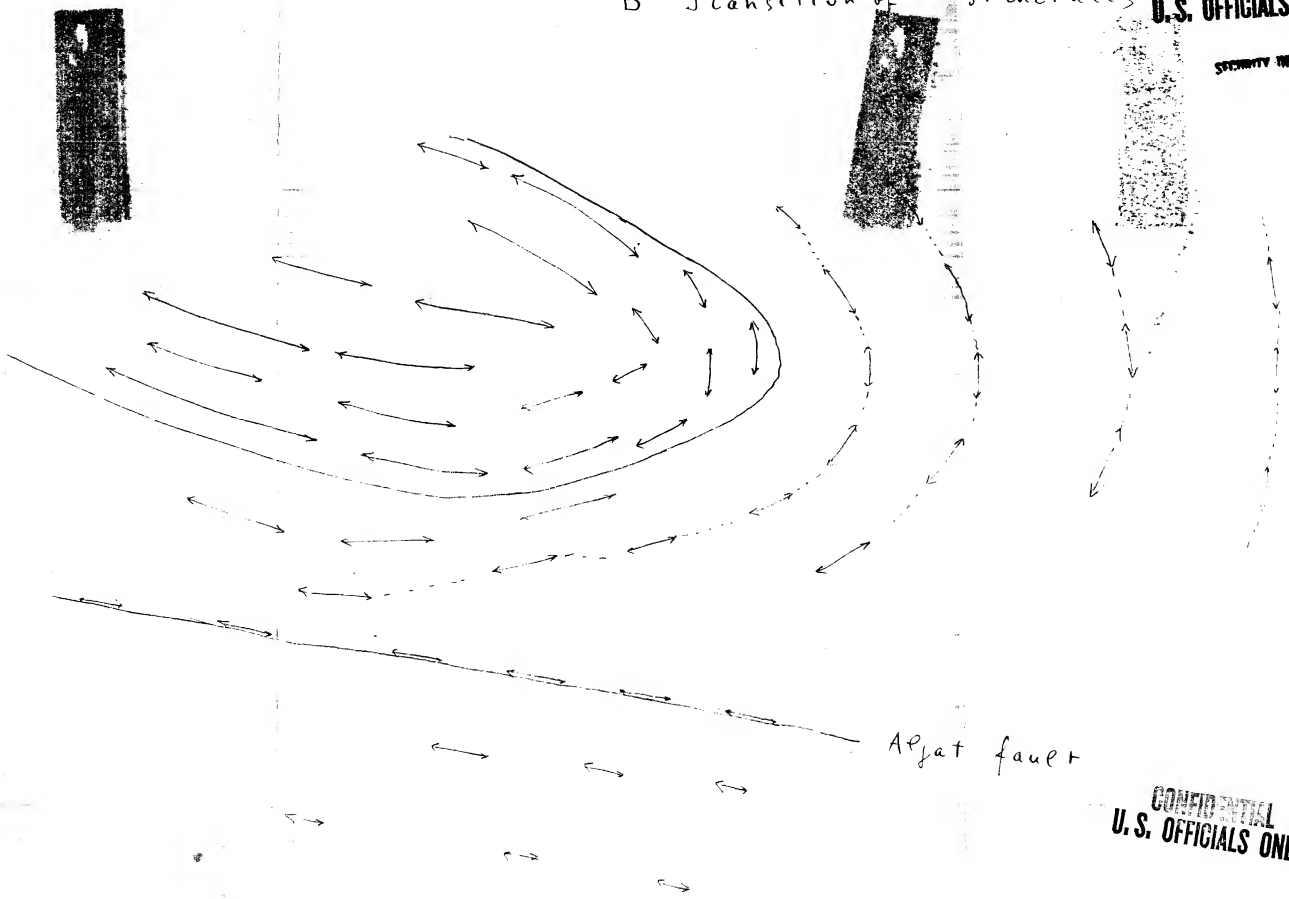

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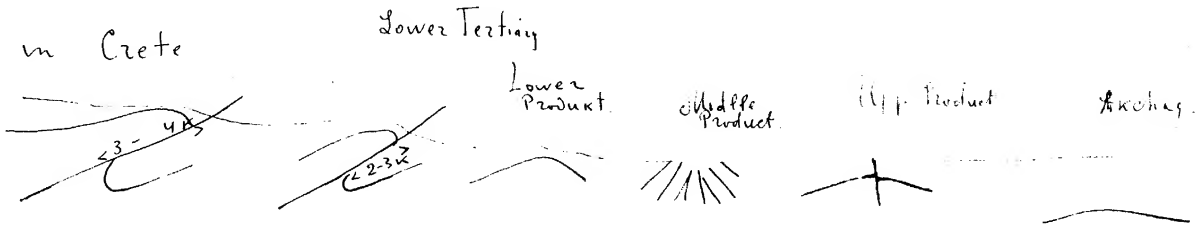
N° 259

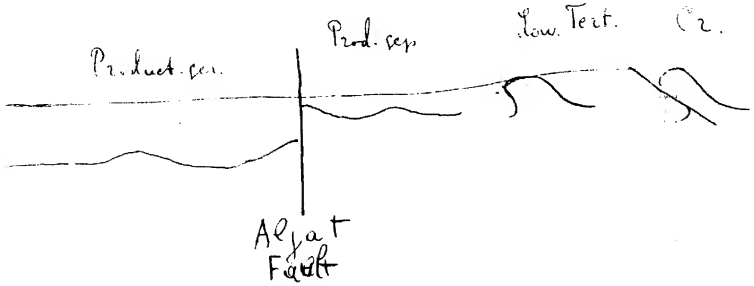
[redacted] A. Transition of structures – East plunge of great Caucasus

NW NE



Transition of structures S from Caucasus

SW NO



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[redacted]

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B Transition of structures

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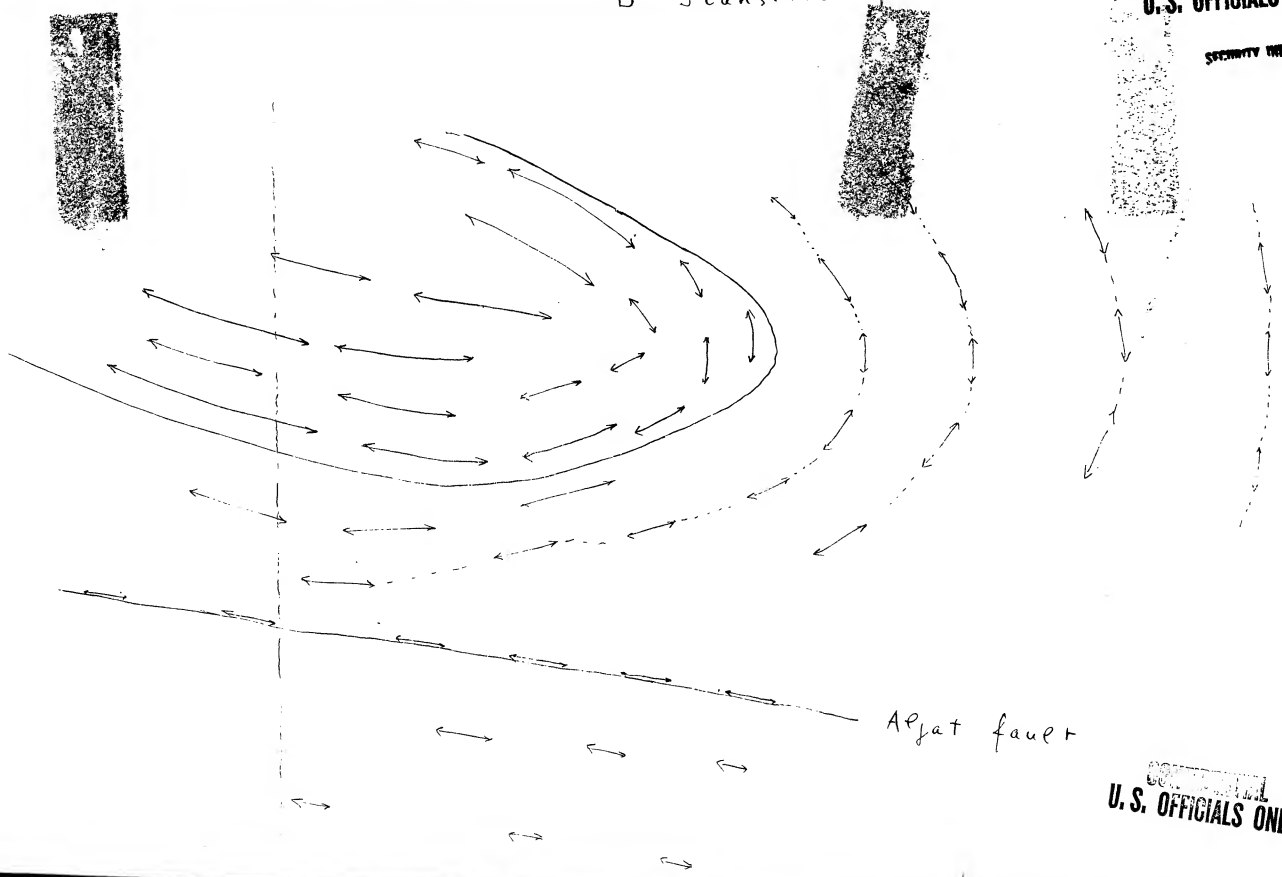

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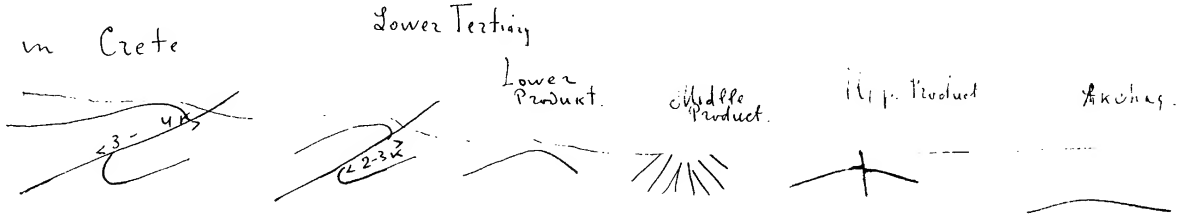
N° 259

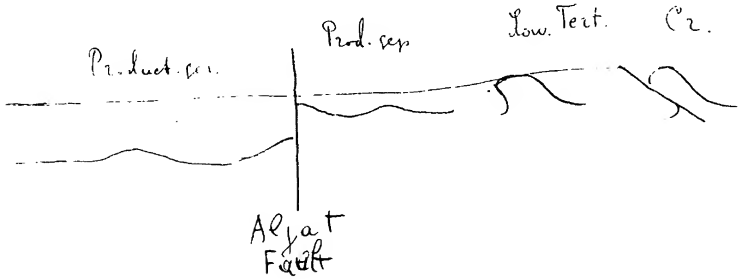
A. Transition of structures – East periphery of Great Caucasus

NW NE



Transition of structures S from Caucasus

SW NO



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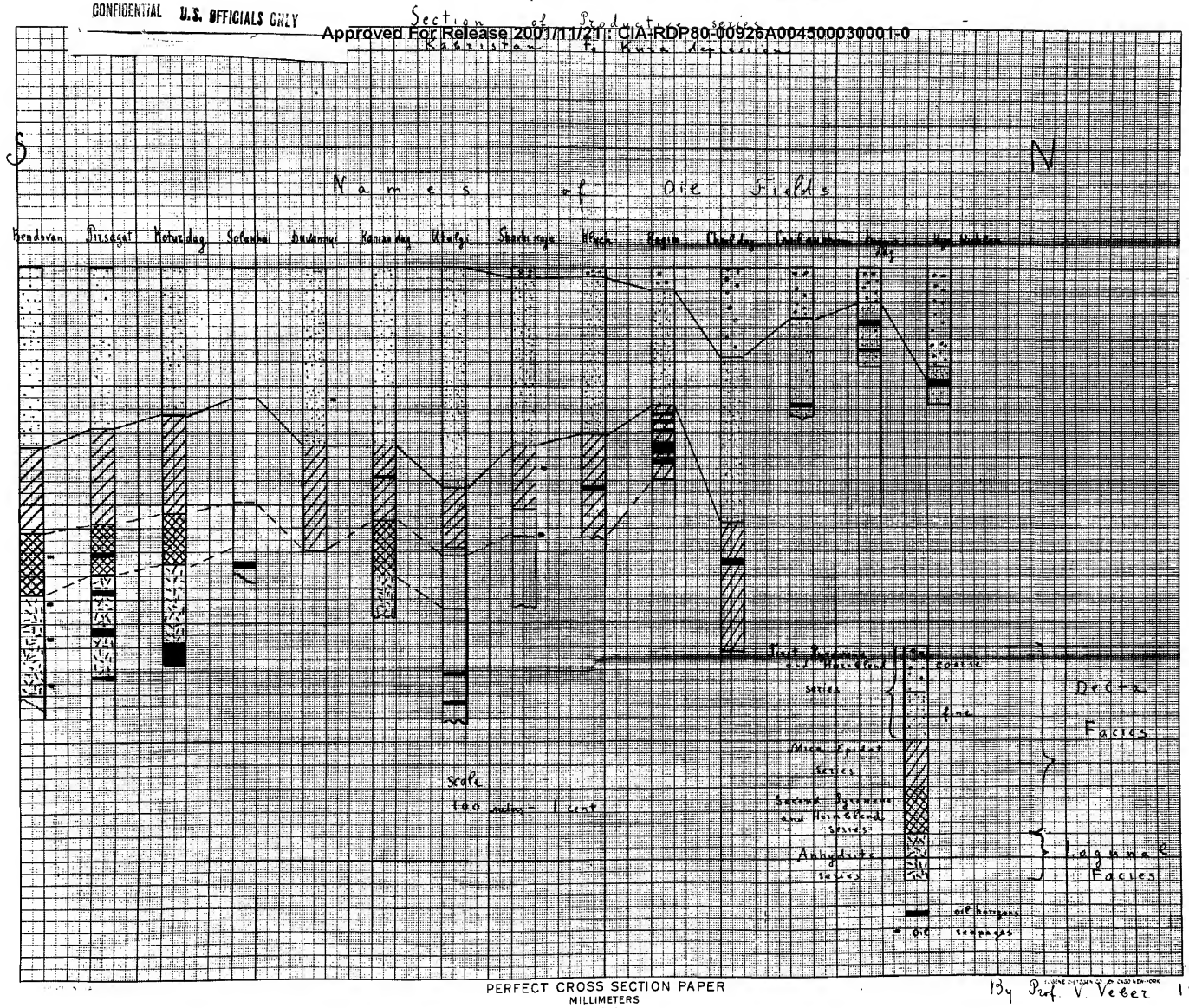
Section of Productive series
Kashistan Fe Kura depression



PERFECT CROSS SECTION PAPER
MILLIMETERS
Nº338

By Prof. V. Veber 1947

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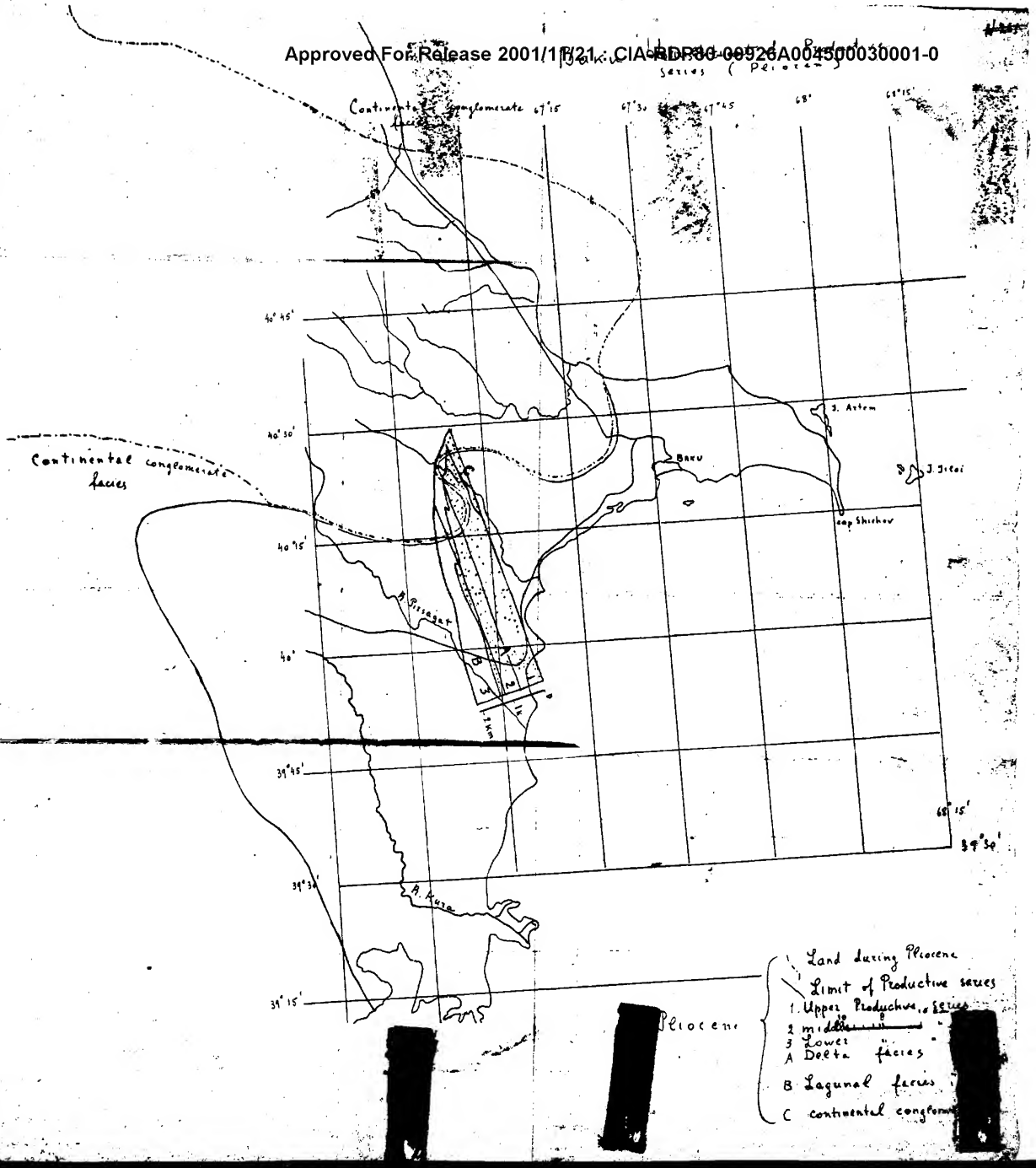
~~No 265~~
No. 261



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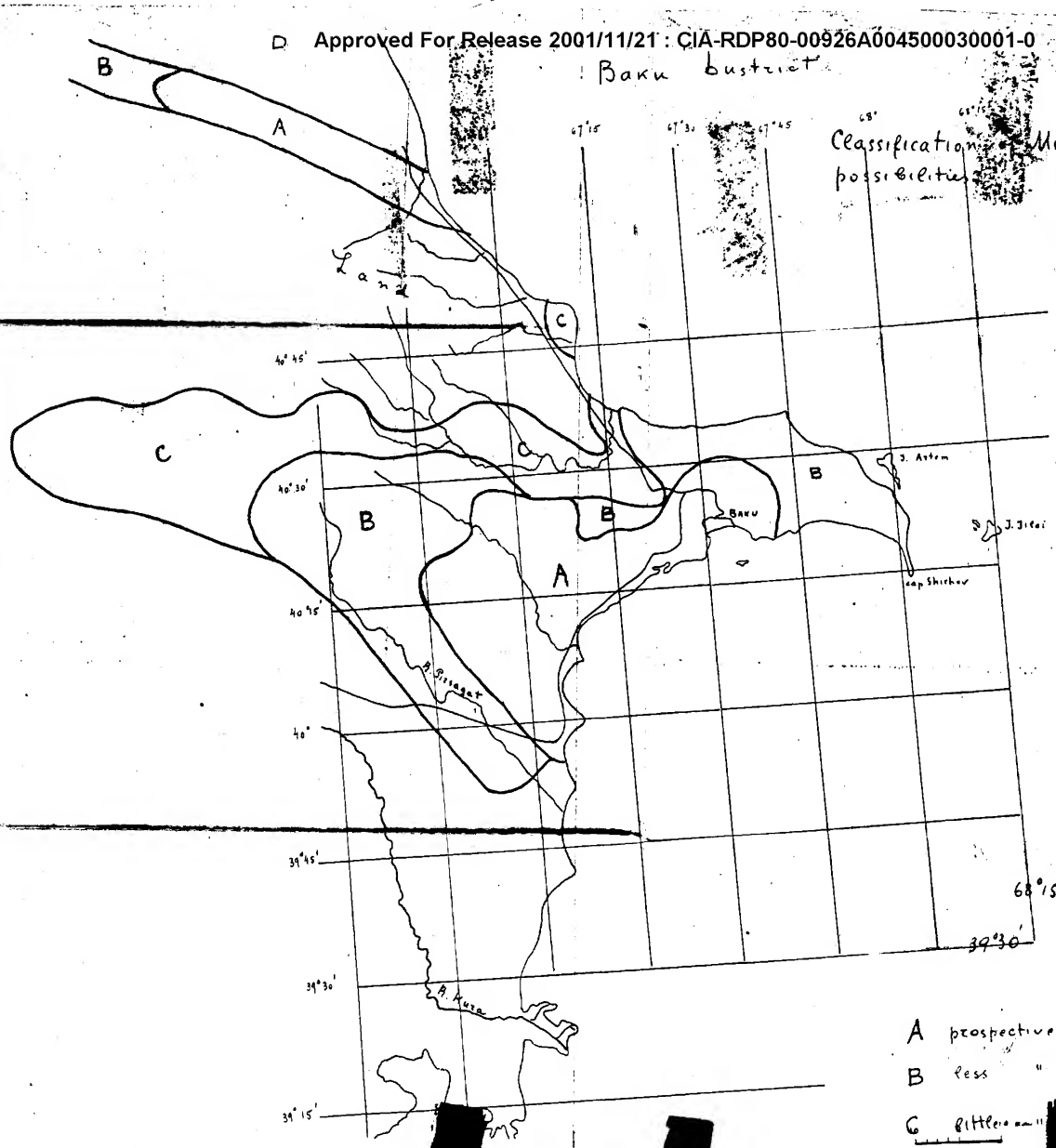
~~№ 255~~
№ 262

Baku bustrict

Classification of Miocene possibilities



A prospective
B less "
C little " "
D very deep

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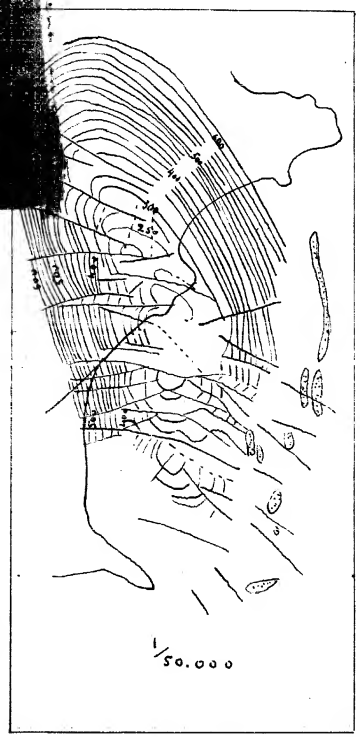
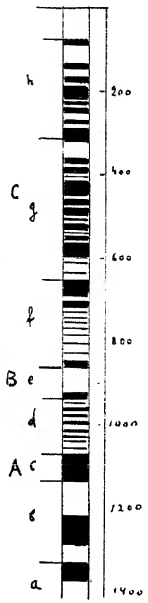
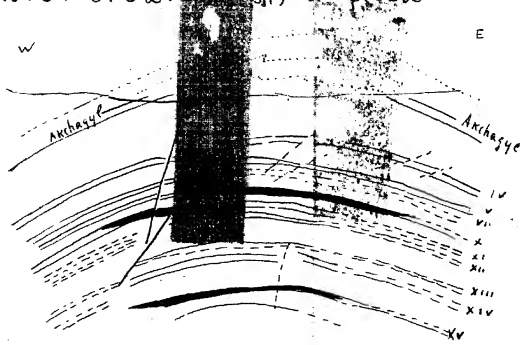
[redacted]

Biei lieat (44°37) oil field







Pliocene
- C upper productive serie
  - h Surahansk serie
  - g Sabunchin serie
  - f Balaghansk serie
  - e first interruption
- B middle "
- A lower "
  - d overkizmakin horizont
  - c overkizmakin "
  - b kizmakin serie
  - a sulkizmakin "

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Kara Chukhur oil field (№ 16)

N° 264

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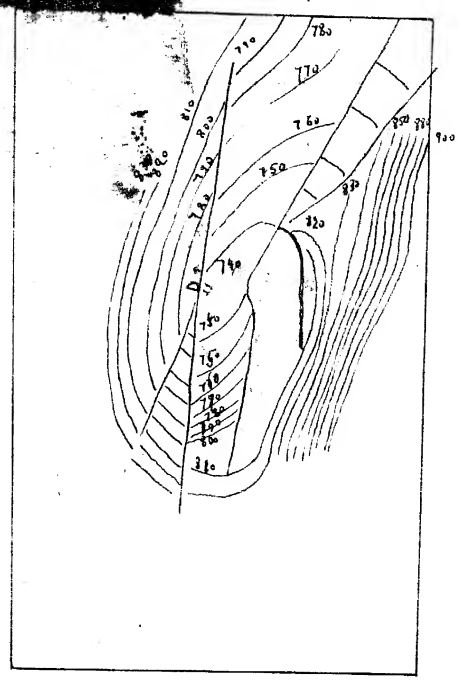
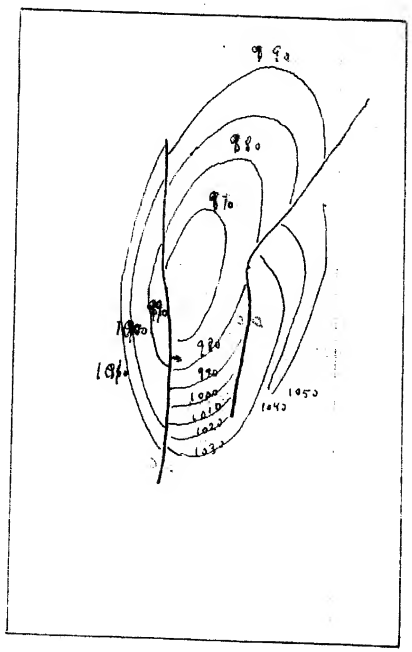
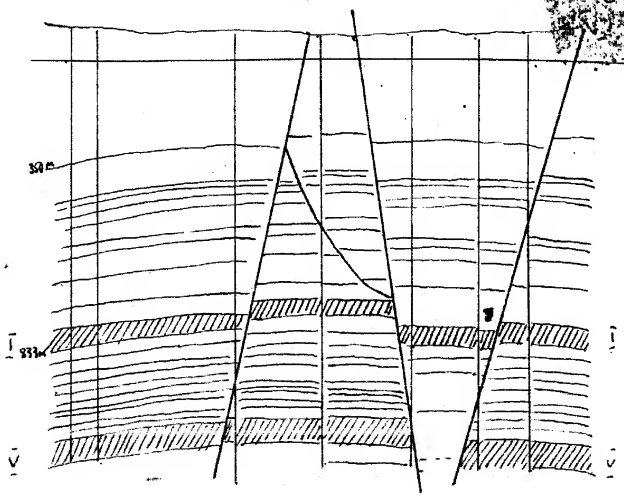


structure map I horizon



structure map VI horiz.



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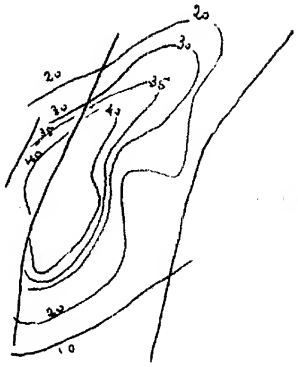
Kara Chukhur Oil field (N 76)

N 265



map of equal saturation of VI horizon

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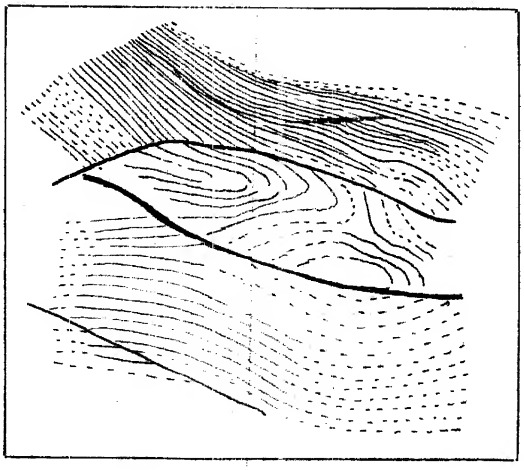
N° 266

[redacted]

Puta (N° 39) Oil field

[redacted]



structural map

25X1A

[redacted]

[redacted]

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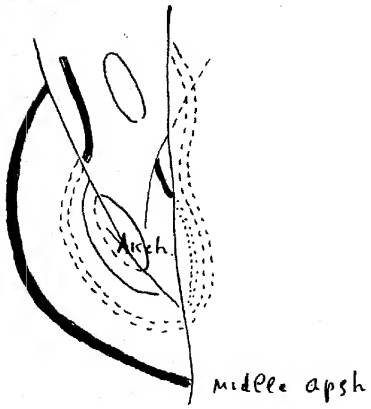
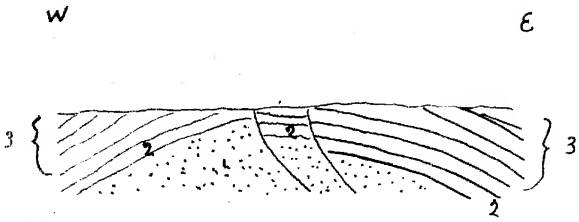
N° 267

Pirsagat oil field (N° 49)

[redacted]





3 apsheron

2 akchagyl

1 Productive series

25X1A

[redacted]

[redacted]

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[redacted]

Lok Batan Oil field (N° 38)

N° 268

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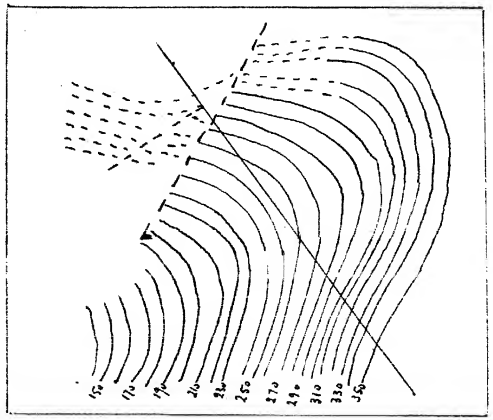

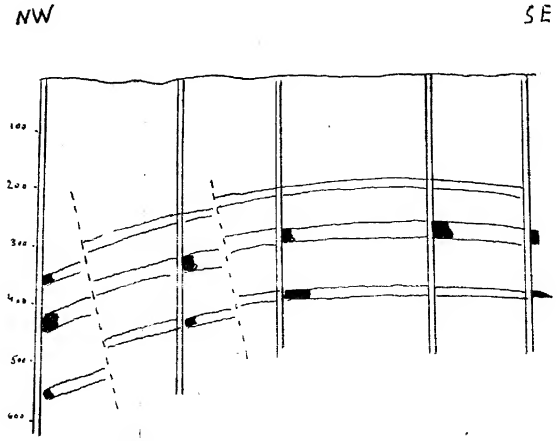

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25X1A [redacted]

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[redacted]

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N° 269

Utaegi oil field (N° 57)

C - m breccia
F Apsheronian
E Akchagylian
D Productive serie
C Pontian
B Chokrakspirialis beds
A biatomian

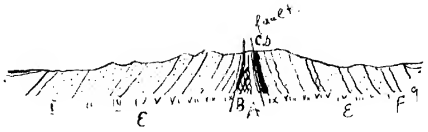
Kerson Oil field (N° 58)

Bz m breccia
H Apsheronian
g Akchagylian
F Productive serie
E Pontian
b biatomian
C
B Maykop
A Koun

25X1A

Shubany - Atashini Oil field (N° 33)

[redacted]



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g Apsheronian
F akchagylian
E different horizonts of Productive serie
b biatomian
C Spirialis Beds
B Maykop
A Koun

VERTICAL FILE

Binagady Oil field (N° 22)

F. Pr[illegible] J upper [illegible]
A Koun B. Maykop C Chokrakspirialis beds. D biatomian serie E [illegible]

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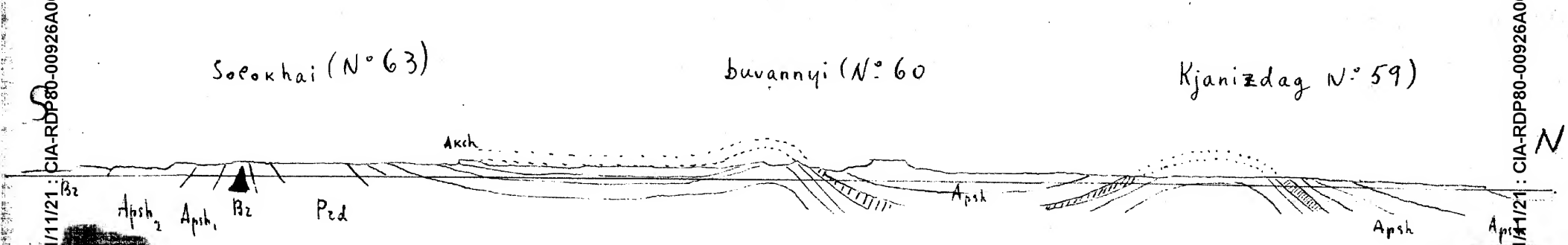
Cross section

№ 70



1 к 0 2 км

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Kazan (Post war development)

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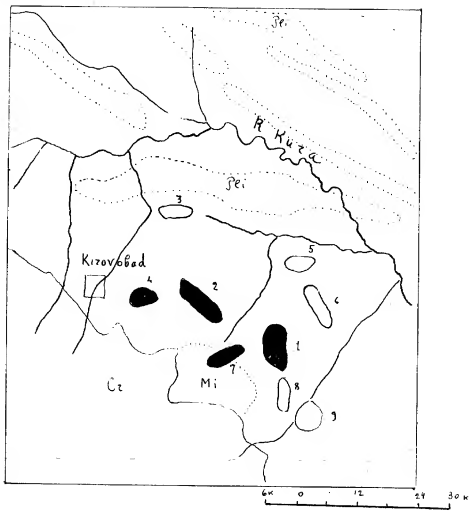
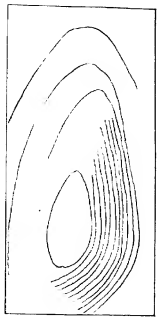


1 Naftalan oil field
2. Kazan Bulag " "
3. Boz bag
4. Ali Ushagi " "
5. Druz bag
6. Gedan Boz
7. Sarial bag " "
8. Borsunly
9. Tertez
oil fields

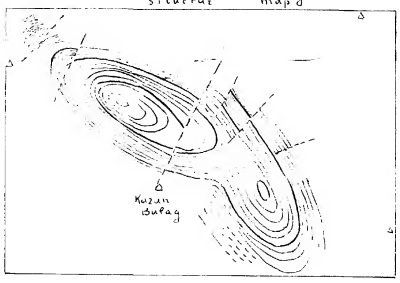
Naftalan
Structur map

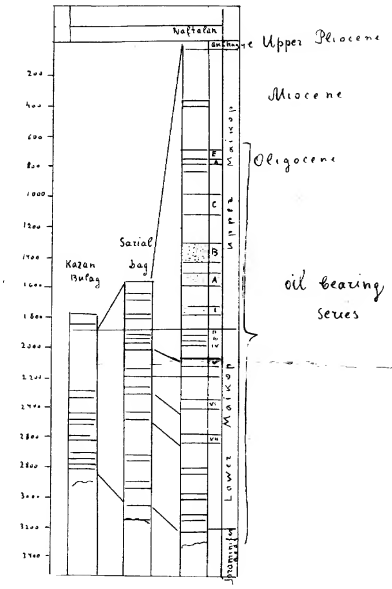


10 meters

Typical structures of region

Kazan Bulag
structur map





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25X1A
[redacted]
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[redacted] Kolyvan area gravity map Bouge reduction

N 279

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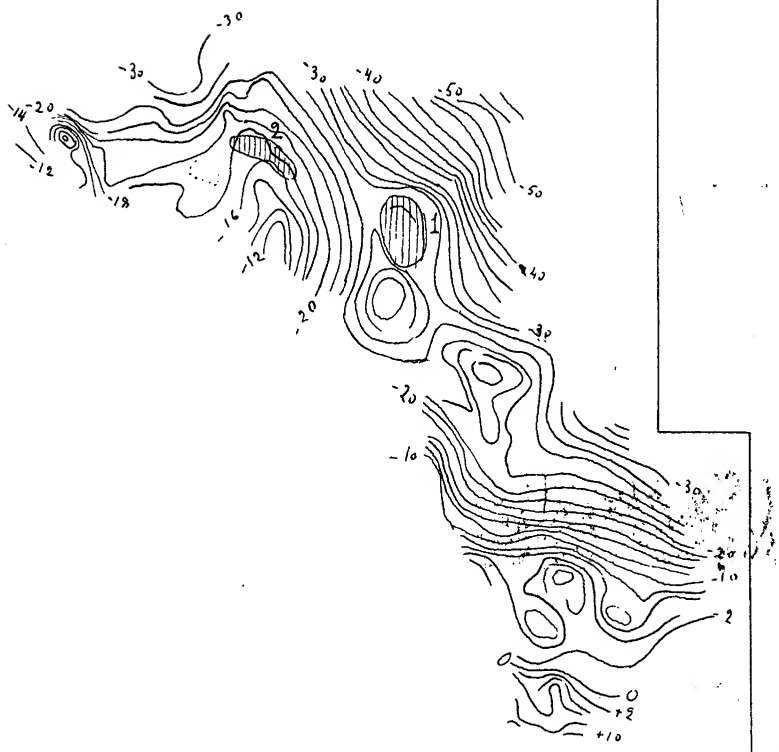

6K 0 12 24 KM

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[redacted]

25X1A

[redacted]

[redacted]

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273

Neftecharla oil field (N-52)

[redacted]

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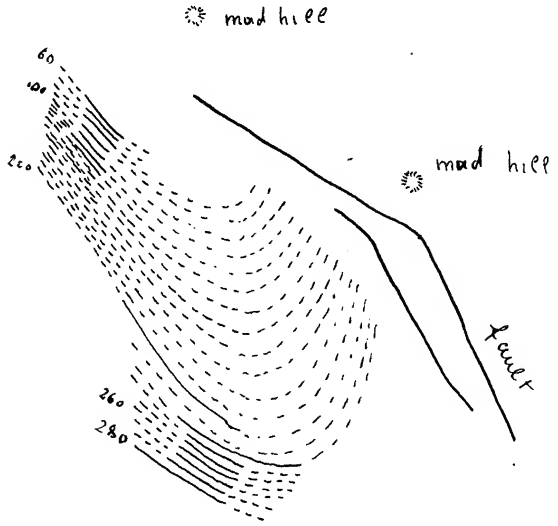

25X1A

[redacted]

[redacted]

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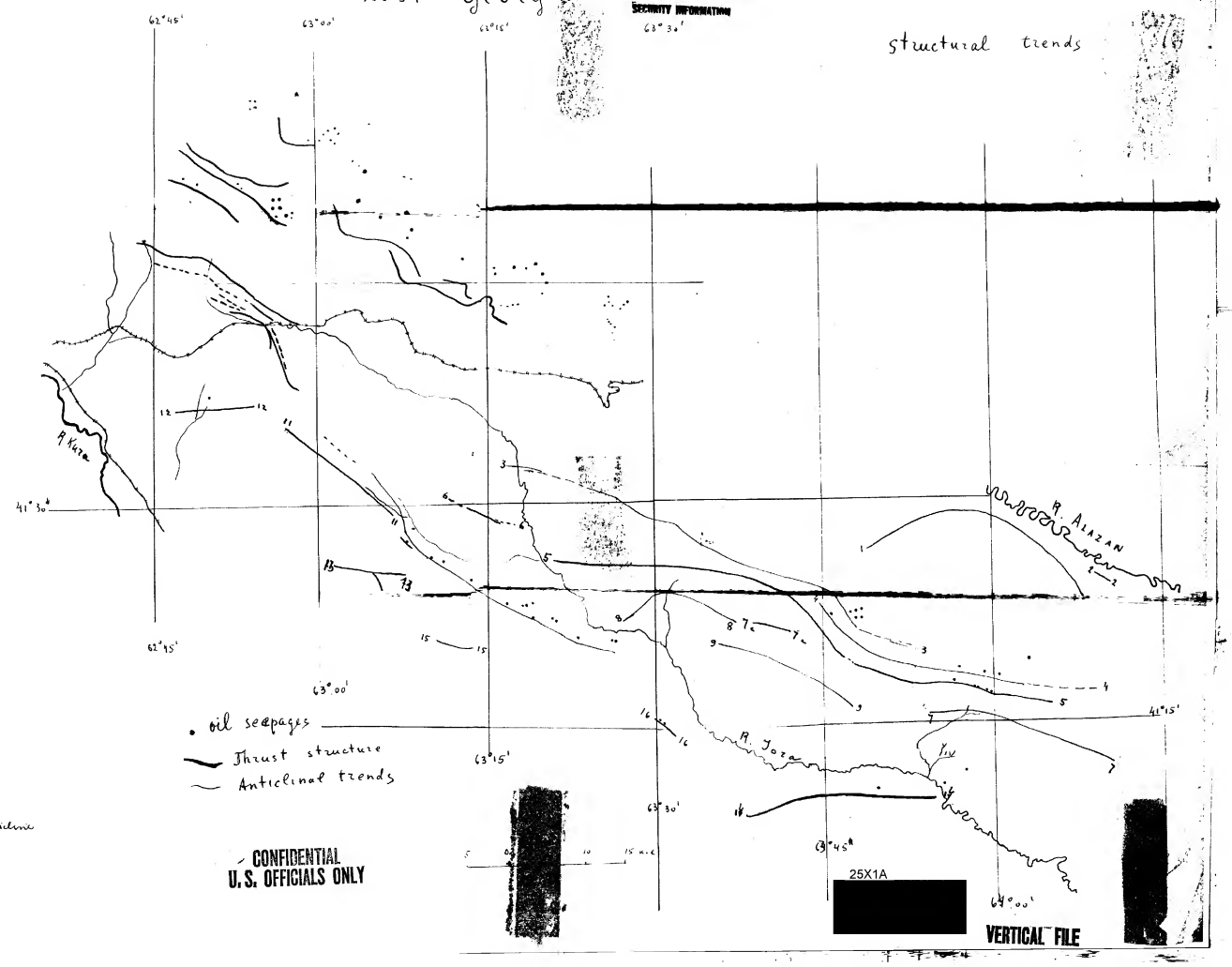
East Georgia

structural trends



1 Anticline to North from Shiraki
2-2 Alazan anticline
3-3 Mizzgany Mgatsis Khevi anticline
4-4 Shua Mta anticline
5-5 Ulaiye Shiraki anticline
6-6 Kinzi anticline
7-7 } Kala bazsi anticline
8-8 Matagalona anticline
9-9 Jariban anticline
10-10 Aladzhigi anticline
11-11 Juara Tape anticline
12-12 Arkhashensu anticline
13-13 Udabno anticline
14-14 Bilar ougi
15-15 Legv Zkhali "
16-16 Armutley Legv Zkhali anticline

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25X1A

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14

East Georgia

Oil bearing structures

structural trends

1.- Malye shiraki
2. Mirzaany- prod. areas
3. Kiazmen
4- Eliaz Gushi
5. Taraban
6- Kila Kupra
7- Chu
8.- chatma
9 Igez Zkhali
10- Gurdjaani
N Cheremny
11.12- Kistas Kevi
13. Gombary
14. Ildokan
15- Khagini
16- Noria Martkobi
17- Norio
18- Katvis Khevi

1-1 Anticline [redacted] from [redacted]
2-2 Alazan an[redacted]
3-3 Mizaany [redacted] anticline
4-4 Shua Alta anticline
5-5 Malye Shiraki anticline
6-6 Kinzi anticline
7-7 Kaca bari anticline
8-8 Matagarovo anticline
9-9 Taraban anticline
10-10 Akadzhigi anticline
11-11 Juara Tape anticline
12-12 Arkhashensu anticline
13-13 Ildaban anticline
14-14 Eliaz ougi
15-15 Iegv Zkhali "
16-16 Armutly Iegv Zkhali anticline

oil seepages
Thrust structure
Anticlinal trends

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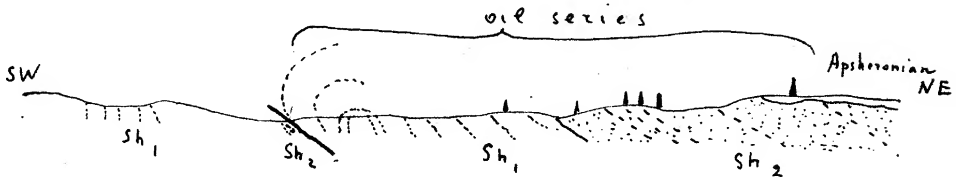
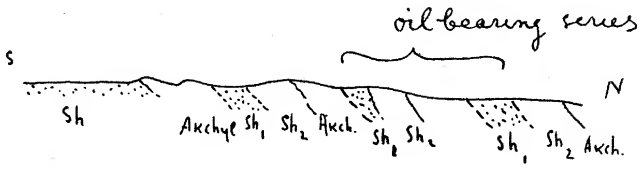
Mirzaani oil field



Shirzaki oil field



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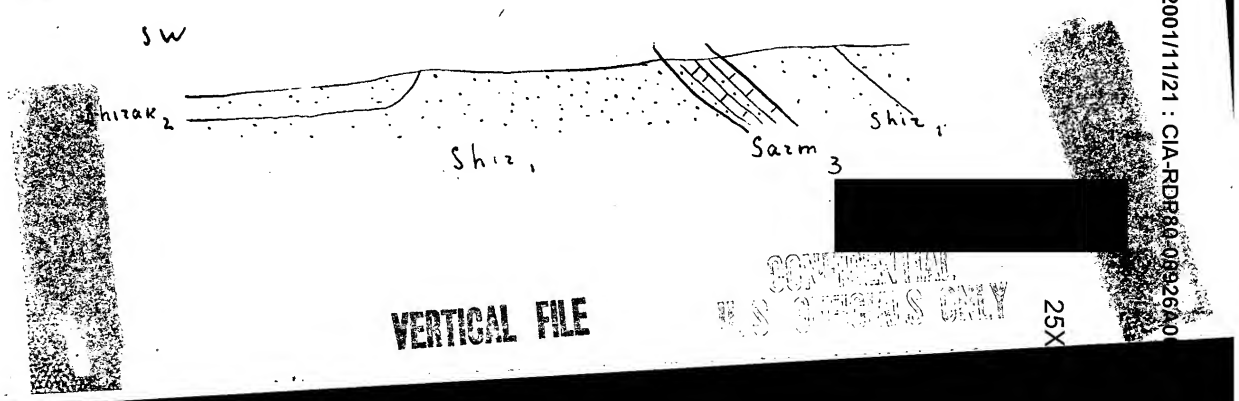
Mlashis Khevi



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25X

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West Turkomanian Oil District

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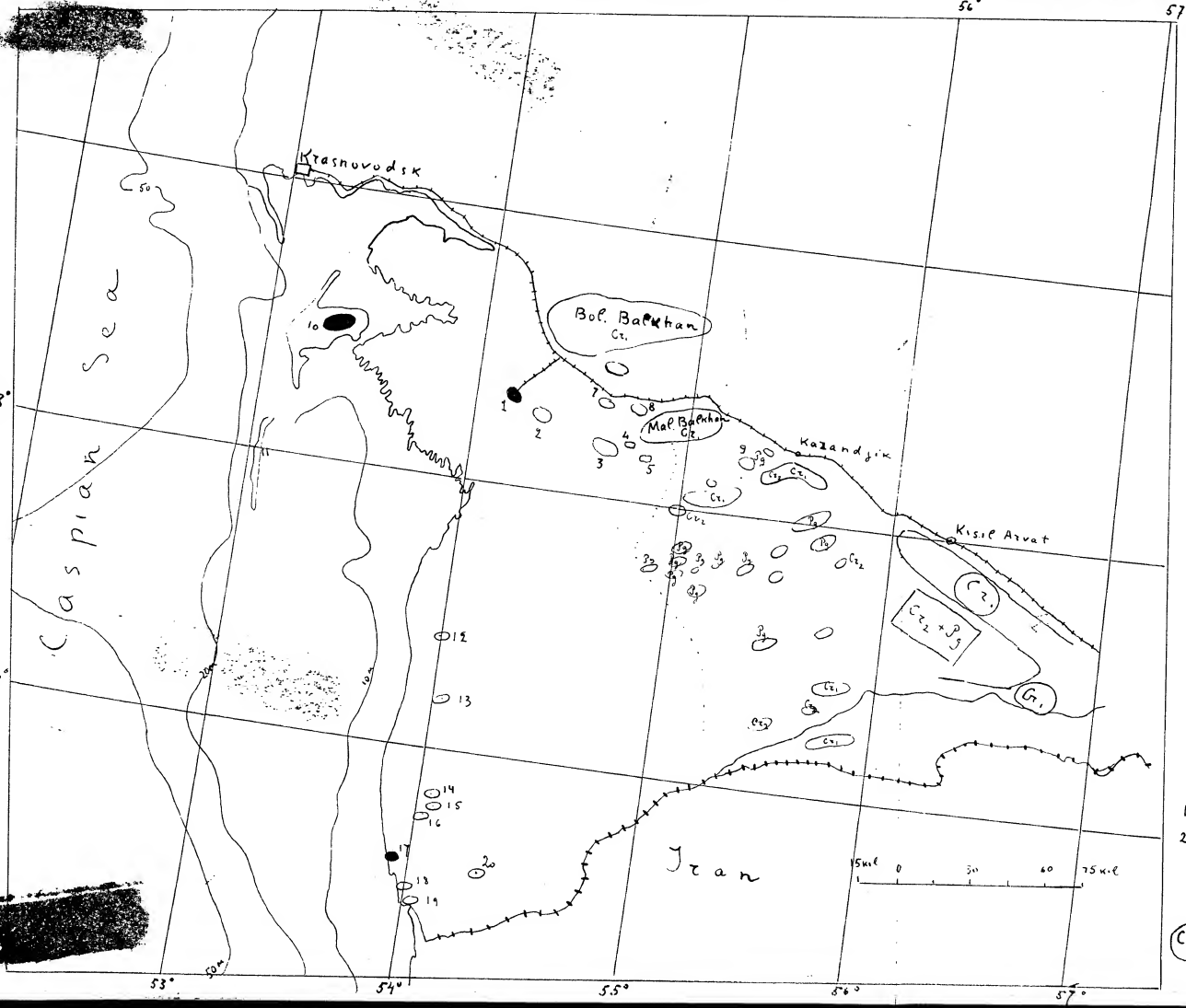
N 278



Structures

1. Neftedag (productive)
2. Monjuney
3. Bojadag
4. Syrtlanly
5. Kumdag
6. Turgaidag
7. Kobek
8. Khudaidag
9. Mangshlak
10. Cheleken Island (productive)
11. Oguzchinski Island
12. Kamyshedga
13. Gekpatlaukh
14. Keimiz
15. Tulukley
16. Akpatlaukh
17. Chikishlar
18. Kipjaschi Bugoz (productive)
19. Hasankuli
20. Porsu

Pg, Cr₂ Cr₁ - domes and brachianticlines on the plunge of Kopet dag

Cr₁ Cr₂+Pg - Kopet dag

oil fields

25X1A [redacted]

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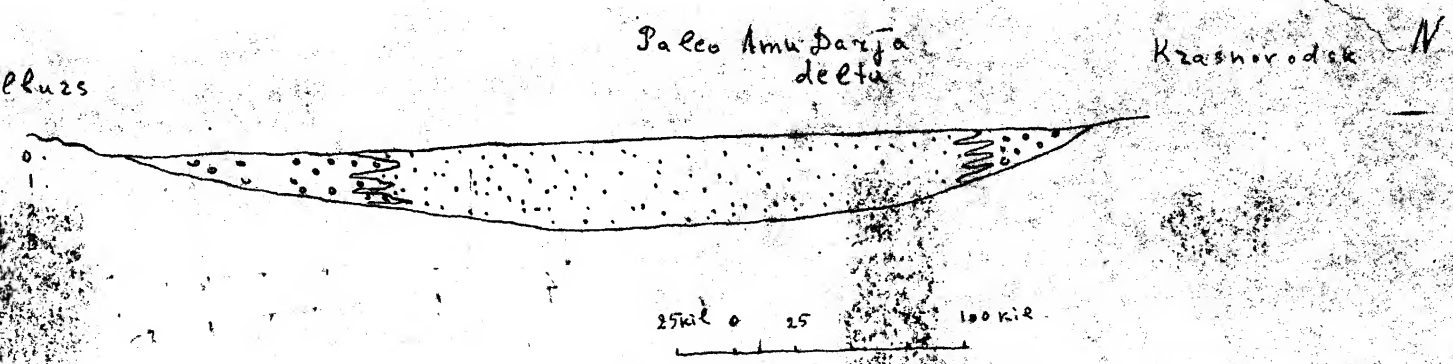
Cross section showing facies of Productive red series – West Turkomenia



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25X1A [redacted]

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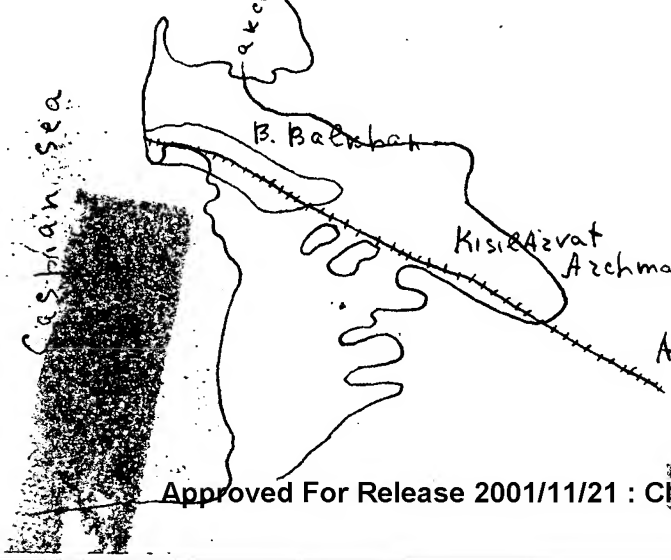
Limit of Akchagyl sea
Pleocen

N 2



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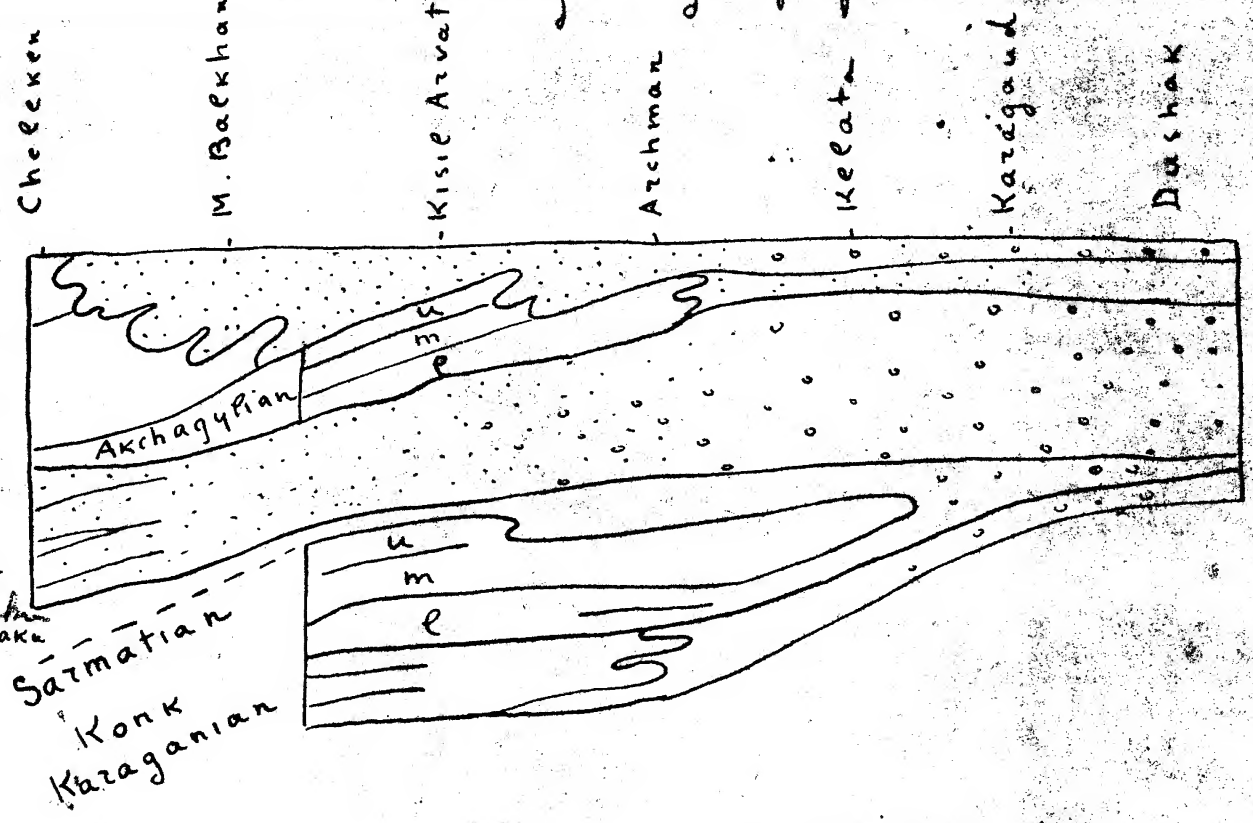
NW

Cross section showing change of facies in Miocen and Pliocen

SE

N 281



conglomerate

sand

marine

35 km 0 70 140 210 km

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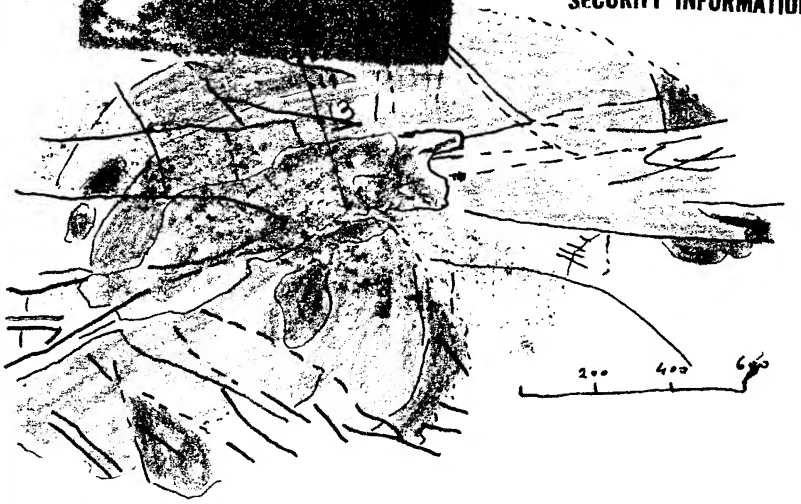
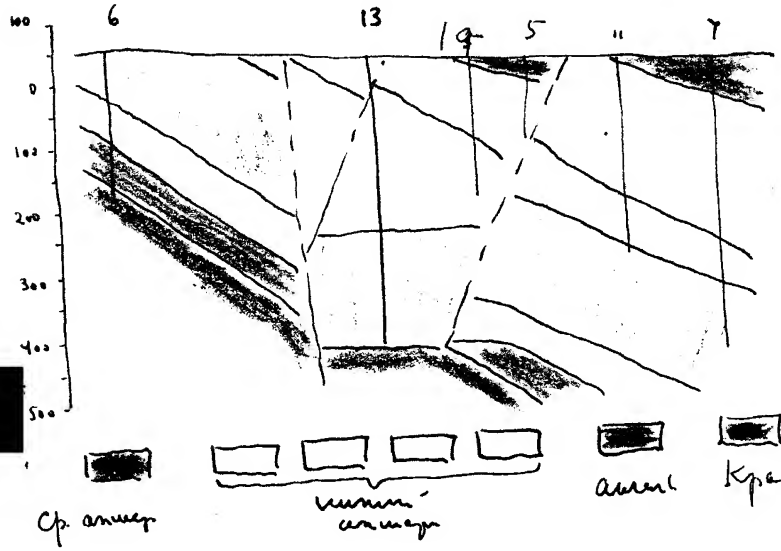


Цушимский пролив
в стве сбн пятнисто
аномалии
Чтобы сброс дел
в север и южную часть
южную север часть
аномалии > 200 м
обыкн. 20-30.
у дна над 20-25°

серые пески с мел. пятнами

серые пески с Adelina

средние аномалии



25X1A

[redacted]

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Ку 449 м

13 грунтов

сум дебит 5000 - 6000
газ дебит 100000 мм.

0,880 0890

W газ 10.5 %
150° дебит 50.5
150°-300° (нерп 4.6 %
+ нерпа

[redacted]

25X1A

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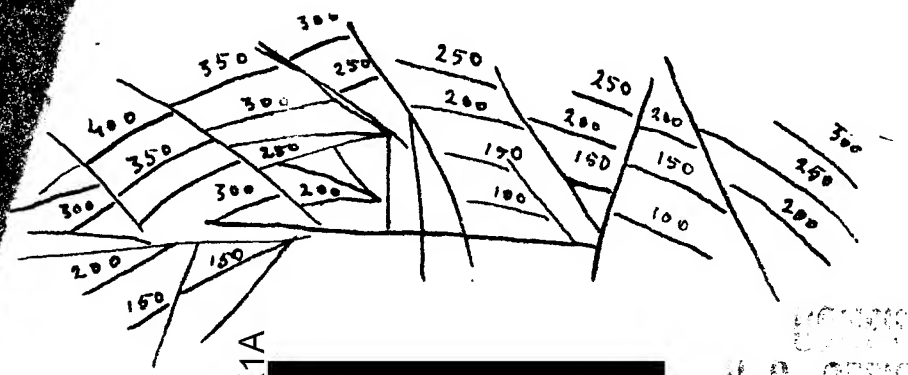
Neftedag oil field
structure

A 22



25X1A [redacted]

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Neftedag

[redacted]

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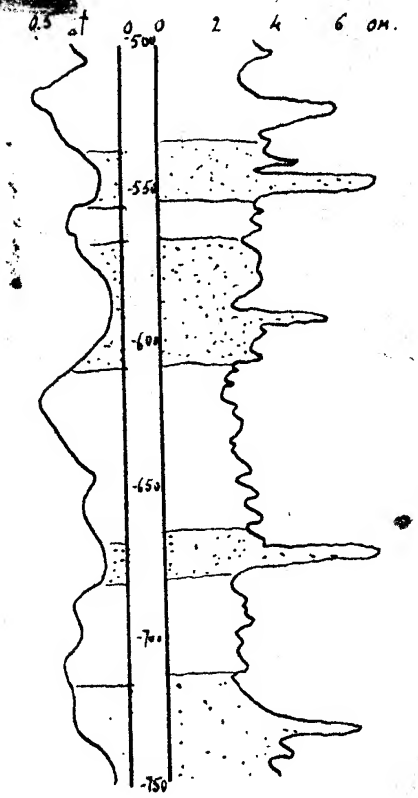

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West Turkomania

A 285

Stratigraphic Correlation

Neft Dag

Baku Bay

Bakinian

Middle Apsheronian

Lower Apsheronian

Akchagylian

Red series productive

upper beds

Apsheronian red clays

gray marls with Adeline volutes

clays with intercalations of sands

white clays with sandstones

Akchagylian with forms

oil bearing series

red series productive

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oil horizons

water sands

PERFECT CROSS
MILLIM
No 3

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